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**BASIC ATTRIBUTES TEST (BAT): OPERATIONAL
PRE-IMPLEMENTATION ANALYSIS AND SCORE EQUATING**

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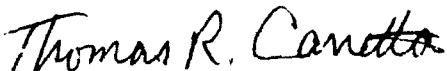
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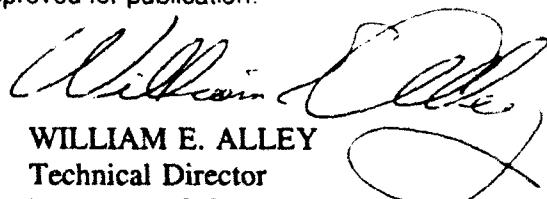
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The Air Force will implement a new pilot candidate selection system. Scores from a multiple aptitude test (Air Force Officer Qualifying Test or AFOQT), a computer-based test (Basic Attributes Test or BAT), and biographical information will be used to compute a pilot candidate selection composite score derived from an equation designed to indicate probability of success in undergraduate pilot training (UPT). The purpose of this study was to equate the experimental and operational tests. The pre-implementation equating was necessary (a) to determine whether the tests measured the same psychological constructs, (b) to compare operational score distributions, and (c) to develop equating tables. Equating was required so that scores from operational tests could be used in proposed pilot candidate selection equations developed on the experimental tests of the BAT. Experimental and operational tests were administered to about 2,000 basic recruits. Analyses were performed at the test score and composite score level and several types of equatings were completed. Adjusted correlations between the experimental and operational BAT tests were acceptable and demonstrated measurement equivalence. Differences in the shapes of the distributions (i.e., skewness, kurtosis) were observed for several of the scores between the two forms. Several types of equatings (linear, equipercentile, smoothed equipercentile) were performed to develop conversion tables for use during implementation of operational tests. Scores will be renormed to the operational test metric and a new pilot candidate selection composite will be developed after a sufficient number of applicants have been tested and have completed UPT.				
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PREFACE

This project was completed under work unit 77191845 in support of HSC/YAR efforts to respond to ATC SON 003-88 and was a part of the initial operational test and evaluation of operational personnel abilities computer test hardware and software known as the Basic Attributes Test (BAT).

Appreciation is extended to SSgt Anthony Robertson, Sgt Maurice Kemp, and Sgt Rodolfo Ledesma for test administration support and to Sgt Keith Weekley for support in data processing and analyses. Appreciation also is extended to the personnel of the Human Systems Product Office (HSC/YAR) for their diligent efforts to help transition the BAT technology.

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BASIC ATTRIBUTES TEST (BAT): OPERATIONAL PRE-IMPLEMENTATION ANALYSIS AND SCORE EQUATING

SUMMARY

The United States Air Force will implement a new pilot candidate selection system, beginning in 1993. Scores from a multiple aptitude paper-and-pencil test (Air Force Officer Qualifying Test or AFOQT), a computer-based test (Basic Attributes Test or BAT), and biographical information will be used to compute a pilot candidate selection composite score. The composite score derives from an equation designed to indicate probability of success in undergraduate pilot training (UPT). Pilot candidate selection boards will consider this score in combination with other types of information (e.g., medical, educational) to determine entry into UPT. The pilot candidate selection composite was developed using an experimental form of the BAT hardware and software. Experimental test systems are too few in number and difficult to maintain to support full-scale operational testing of Air Force pilot training applicants. The Air Force has developed and plans to field over 150 low-maintenance, operational test systems at several locations to test pilot training applicants. The purpose of this study was to determine differences and where differences existed to equate the experimental and operational BAT tests. The pre-implementation equating was necessary to (a) determine whether the tests measured the same psychological constructs as the experimental tests, (b) to compare score distributions of the two BAT tests, and (c) to develop equating tables for placing scores from operational tests on the experimental test metric. Equating was required so that scores from operational tests could be used in proposed pilot candidate selection equations developed on the experimental tests of the BAT.

Experimental and operational tests were administered to about 2,000 basic recruits. Analyses were performed at the test score and composite score level and several types of equatings were completed. Adjusted correlations between the experimental and operational BAT tests were acceptable and demonstrated construct validity. Differences in the shapes of the distributions (i.e., skewness, kurtosis) were observed for several of the scores between the two BAT forms. Several types of equatings (linear, equipercentile, smoothed equipercentile) were performed to develop conversion tables for use during implementation of operational tests. Scores will be renormed to the operational test metric and a new pilot candidate selection composite will be developed after a sufficient number of applicants have been tested and have completed UPT.

INTRODUCTION

Background

The Air Force plans to phase-in a new pilot candidate selection system in the near future. Scores from the Air Force Officer Qualifying Test (AFOQT, see Skinner & Ree, 1987), Basic Attributes Test (BAT, see Carretta, 1989, 1992), and biographical information will be used to compute a pilot candidate selection composite score. The AFOQT, though highly *g* loaded (Earles & Ree, 1991), is a paper-and-pencil test battery which

assesses five factorial ability domains: verbal, quantitative, spatial, perceptual speed, and aircrew interest/aptitude (Skinner & Ree, 1987). Fourteen of the 16 AFOQT subtests contribute to the Pilot and Navigator-Technical composites which are used for pilot candidate selection (U.S. Air Force, 1983). The BAT is a computer-based multiple aptitude test battery which measures individual differences in psychomotor skills, cognitive abilities, personality, and attitudes toward risk (Carretta, 1987, 1989). Several studies have demonstrated the incremental validity of BAT scores for predicting flying training performance (Carretta, 1989; Kantor & Carretta, 1988) and its robustness under cross-validation (Carretta, 1990). Additional pilot candidate selection factors include medical fitness, academic performance, aptitude test scores, and previous flying experience.

Purpose

The new pilot candidate selection composite, known as the Pilot Candidate Selection Method or PCSM, was developed using an experimental form of BAT hardware and software. The experimental BAT systems are too few in number and difficult to maintain to support full-scale operational testing of Air Force pilot training applicants. The Air Force selects pilot candidates from several sources including the Air Force Academy (AFA), Officer Training School (OTS), Reserve Officer Training Corps (ROTC), and active duty. The Air Force plans to field over 150 test systems at ROTC detachments, Military Enlistment Processing Stations, and other locations (i.e., AFA). The purpose of this study was to equate the experimental and operational test systems. The pre-implementation equating was necessary (a) to determine whether the production prototype tests measured the same psychological constructs as the experimental tests (i.e., construct validity), (b) to compare score distributions, and (c) to develop equating tables for placing scores from operational tests on the experimental test metric. Equivalency was required so that scores from the operational tests could be used in proposed Air Force pilot candidate selection equations developed on the experimental BAT system.

METHOD

Subjects

The subjects were 2,034 Air Force recruits with a median age of 19 years and were mostly White (84%), male (69%), and high school graduate or better (99%). All subjects were selected for training, in large part, on the basis of their Armed Services Vocational Aptitude Battery (ASVAB, see Earles & Ree, 1992; Ree, Mullins, Mathews, & Massey, 1982) scores, and educational achievements.

Apparatus

Both experimental and production BAT apparatuses consist of a microcomputer and monitor built into a carrel with a glare shield and side panels designed to eliminate distractions. Each subject responded to the tests by using, individually or in combination, a dual-axis control stick on the right side of the apparatus, a single axis control stick on the left side, and a specialized keypad in the center. The keypad included the number

keys 0 to 9, an ENABLE key in the center, and a bottom row with YES and NO keys and two others labeled S/L (for Same/Left responses) and D/R (for Different/Right responses).

Measures

The BAT was designed to measure individual differences in psychomotor skills, cognitive abilities, personality, and attitudes toward risk. The type of scores generated from these tests included tracking error/difficulty, response speed, response accuracy, and response choice. A test battery summary is provided in Table 1. A brief description of the tests follows and a more detailed description was provided by Carretta (1989, 1990).

Two-Hand Coordination. This pursuit tracking task was a measure of multilimb coordination (Fleishman, 1964). An airplane (target) moved in a fixed, elliptical pattern at a varying rate. The subject controlled the horizontal and vertical movement of a "gunsight" using the right (horizontal) and left (vertical) control sticks. The subject's task was to keep the gunsight on the target.

Complex Coordination. This stick and rudder, compensatory tracking task was an example of multilimb coordination and control precision (Fleishman, 1964). The dual-axis right control stick was used to control the horizontal and vertical movement of a cursor. The left control stick was used to control the left-right movement of a "rudder bar" at the base of the screen. The subject's task was to maintain the cursor (against a constant horizontal and vertical rate bias) centered on a large cross fixed at the center of the screen, while simultaneously centering the rudder bar at the base of the screen (also, against a constant rate bias).

Encoding Speed. This task assessed verbal processing efficiency and was adapted from a paradigm proposed by Posner and Mitchell (1967). The subject was presented simultaneously with two letters and required to make a same-different judgment about the letter pair. The complexity of the decision rule increased throughout the task.

Mental Rotation. This was a variation of a spatial transformation task (Shepard & Metzler, 1971). The subject was presented sequentially with two letters and required to make a same-different judgment. The letter pair consisted of either same or mirror images and the letters were either in the same orientation or rotated in relation to each other. A correct "different" judgment is associated with a mirror image pair and is not dependent on the relative rotation of the two letters.

Item Recognition. This measure of short-term memory was based on a task proposed by Sternberg (1966). A string of 1 to 6 digits was presented on the screen. The string was then removed, and after a brief delay, replaced by a single digit. The subject was instructed to remember the digit string and indicate whether the single digit was one of those presented in the digit string.

Table 1. Basic Attributes Test (BAT) Battery Summary

Test name	Length (min)	Attributes Measured	Scores
1. Test Battery Introduction	10	Biographical information	Age, handedness, previous flying experience, etc.
2. Two-Hand Coordination	10	Multilimb coordination, control precision	Tracking error
3. Complex-Coordination	10	Multilimb coordination, control precision	Tracking error
4. Encoding Speed	20	Verbal classification	Response time, response accuracy
5. Mental Rotation	25	Spatial transformation	Response time, response accuracy
6. Item Recognition	20	Short-term memory	Response time, response accuracy
7. Time Sharing	30	Higher-order tracking ability, learning rate and time sharing ability	Tracking difficulty, response time on secondary task
8. Self-Crediting Word Knowledge	10	Self-assessment ability, self-confidence	Response time, response accuracy, subject's prediction of own performance
9. Activities Interest Inventory	10	Attitudes toward risk	Response time, response choice

Note: Min means minutes.

Time Sharing. This test provided a measure of time sharing performance (North & Gopher, 1976). In the first 10 minutes of this test, the subject was required to keep a randomly moving "gunsight" on an airplane (target) using the right-hand control stick. In the next six minutes, the subject had to repeat the tracking task and simultaneously cancel digits which appeared at random intervals and locations on the screen. Digit cancellation was timed and consisted of pressing the same digit on the numeric keypad. The final three minutes of the test consisted of tracking only. Tracking difficulty was

varied by increasing or decreasing the control stick sensitivity as a function of the tracking error.

Self-Credit in Word Knowledge. This was a vocabulary test where the subject was required to make predictions about his or her performance (i.e., self-confidence) prior to each group of items (Mullins, 1962). The subject had to predict if they would know the meaning of the next word. Items were multiple choice and used synonyms.

Activities Interest Inventory. This test was designed to measure the subject's attitudes toward risk-taking (Mullins, 1962). The subject was presented with 81 pairs of activities and was asked to choose between each pair. The activity pairs forced the subject to choose between activities that differed as to degree of threat (sometimes subtly, sometimes not).

Equating

Equating is the process by which test scores are made comparable by placing both on the same metric. Angoff (1971) provided this definition of equating.

A commonly accepted definition of equivalent scores is: Two scores, one on Form X and the other on Form Y (where X and Y measure the same function with the same degree of reliability), may be considered equivalent if their corresponding percentile ranks in any given group are equal (p. 563).

There are two usual types of equating derived from the commonly accepted definition. These are equipercentile equating and linear equating. If the two tests have the same distributional shape as demonstrated by equal measures of skewness and kurtosis, then linear equating may be conducted. Linear equating sets z-scores equal in both distributions and z-score equivalent raw scores are thereby equal. Equipercenitile equating is the non-linear analogue (Angoff, 1971) which produces an area-transform on both distributions to make each rectilinear (i.e., percentiles). As percentiles are set equal (i.e., 95 on X to 95 on Y, 90 on X to 90 on Y, and so on) raw scores are set equal and thereby equated.

Because linear equating uses only two estimates, mean and standard deviation, it is desirable to use whenever possible. Equipercenitile equating uses many estimates, one for each percentile and is more sample dependent and less stable. Also, equipercenitile equating requires smoothing of the resultant equating functions. This was accomplished by first, second, and third order polynomial regressions which were constrained to be monotonic. These regression coefficients add to the number of estimates and the instability of equipercenitile equating. When operational and experimental tests had approximately the same skewness and kurtosis, linear equating was used; otherwise, equipercenitile equating was used.

Procedures

The BAT was administered on the 11th day of basic military training and the subjects were told that the test scores were being collected for experimental purposes only. In accordance with the Privacy Act, all subjects were given the opportunity to decline participation; none did.

The eight-test BAT battery, including breaks between tests to reduce physical and mental fatigue, requires about 2-hours, 40 minutes to complete. As subjects needed to test twice on the battery to estimate retest reliability, total testing time for the eight-test battery would have been about 5.5 hours. To accommodate time constraints and minimize subject fatigue effects, the eight tests were divided into two, four-test batteries.

Battery A consisted of a test-battery introduction and the first four tests described in Table 1 (Two-Hand Coordination, Complex Coordination, Encoding Speed, and Mental Rotation). Battery B consisted of the introduction and last four tests (Item Recognition, Time Sharing, Self-Crediting Word Knowledge, and Activities Interest Inventory). Subjects were assigned to one of eight test conditions based on test battery content (Battery A or Battery B) and test apparatus (experimental twice, experimental-operational, operational-experimental, or operational twice). Reliability was estimated by testing twice on either the experimental or operational battery. The number of subjects by battery and test condition is shown in Table 2. The research design used randomly equivalent groups (Campbell & Stanley, 1966).

Table 2. Number of Subjects by Battery and Test Condition

Battery	Test Condition	N
A	experimental-experimental (exp-exp)	(347)
	experimental-operational (exp-op)	(234)
	operational-experimental (op-exp)	(241)
	operational-operational (op-op)	(209)
B	experimental-experimental (exp-exp)	(435)
	experimental-operational (exp-op)	(264)
	operational-experimental (op-exp)	(267)
	operational-operational (op-op)	(247)
Totals		(2,244)
		2,034

Note: Number of subjects column reflects sample size (before) and after removal of missing data and outliers.

Analyses

Analyses were performed at the test score level and included descriptive statistics of the scores, t-tests between the means, F-tests between the variances, chi-square tests of the distributions, and correlations between the scores.

Correlations between tests from experimental and operational apparatuses were adjusted for unreliability using the formula (Stanley, 1971):

$$\text{Adjusted } r_{eo} = \frac{r_{eo}}{\sqrt{r_{ee} r_{oo}}}$$

Where

r_{eo} = the correlation between experimental and operational BAT scores (combining data from the exp-op and op-exp conditions)

r_{ee} = the test-retest reliability of the experimental BAT (from the exp-exp condition)

r_{oo} = the test-retest reliability of the operational BAT (from the op-op condition)

The minimum acceptable adjusted correlation was set at .85. The measure of equating goodness (Braun & Holland, 1982) is how well the new test, *after equating*, has replicated the distributional shape of the old test. This was investigated and evaluated in this study, using the chi-square goodness-of-fit statistics.

To determine equivalence of means, variances, and distributional shapes, t-tests, F-tests, and chi-square tests were computed, respectively. The $p < .05$ Type I error rate was used on all observed data. No corrected correlations were tested.

Several of the test scores are measured in very small and precise increments (e.g., tracking error in pixels, response times in milliseconds). Each subject could potentially receive a unique value for these scores leading to several hundred values which would make it very difficult to equate the forms. To reduce the number of unique values, score intervals dependent on the units of the measures, were created before performing the equatings.

RESULTS

Descriptive Measures

Examination of descriptive statistics revealed several subjects with either missing or extreme values for one or more scores. Subjects with missing data were removed from the samples. Scores of extreme values (i.e., more than three standard deviations from the mean) were reviewed on a subject-by-subject basis. Those whose score profile suggested poor performance due to carelessness or lack of motivation were removed (Ree, Mathews, Mullins, & Massey, 1982).

Comparisons of "first test" scores (Table 3) from the experimental and operational batteries revealed several differences in score means (t-tests), variances (F-tests), and distribution shape (chi-square tests). When mean differences occurred, with the exception of Two-Hand Coordination vertical tracking error, the BAT test on the operational system was easier.

Table 3. Summary of Comparisons of Score Means, Variances, and Distribution Shape Between Experimental and Operational BAT Systems

Test Score	Mean (t-test)	Variance (F-test)	Dist. Shape (χ^2)
Psychomotor Composite	*	*	*
Two-Hand Coordination			
Horiz. Error	NS	*	*
Vert. Error	*	NS	*
Complex Coordination			
Horiz. Error	*	*	*
Vert. Error	*	*	*
Rudder Error	*	*	*
Encoding Speed			
Avg. RT	*	*	*
% Correct	NS	NS	NS
Mental Rotation			
Avg. RT	NS	NS	NS
% Correct	NS	NS	*
Item Recognition			
Avg. RT	NS	*	*
% Correct	NS	*	*
Time Sharing			
Difficulty Level	NS	NS	*
Avg. RT	*	NS	*
Self-Crediting Word Knowledge			
Avg. RT	NS	*	NS
% Correct	NS	NS	NS
Bet	NS	NS	NS
Activities Interest Inventory			
Avg. RT	NS	NS	*
Response Choice	NS	NS	*

Notes. 1. The sample sizes for the Battery A tests (Two-Hand Coordination, Complex Coordination, Encoding Speed, and Mental Rotation) were 531 for the experimental (reference) group and 408 for the operational group.

2. The sample sizes for the Battery B tests (Item Recognition, Time Sharing, Self-Crediting Word Knowledge, and Activities Interest Inventory) were 635 for the experimental (reference) group and 460 for the operational group.

3. * $p < .05$.

Adjusted correlations, presented in the last column of Table 4, demonstrated an acceptable level of agreement between scores generated from the experimental and operational systems.

Table 4. Correlations Between Experimental and Operational BAT Systems

Test Score	Test Condition			
	Exp-Exp	Op-Op	Exp-Op/ Op-Exp	Adj. <i>r</i> _{eo}
Psychomotor Composite	.774	.737	.692	.916
Two-Hand Coordination				
Horiz. Error	.664	.611	.587	.922
Vert. Error	.659	.674	.672	1.000
Complex Coordination				
Horz. Error	.733	.578	.565	.868
Vert. Error	.692	.672	.601	.881
Rudder Error	.635	.638	.611	.960
Encoding Speed				
Avg. RT	.546	.464	.498	.989
% Correct	.505	.607	.500	.903
Mental Rotation				
Avg. RT	.758	.779	.762	.992
% Correct	.751	.801	.784	1.000
Item Recognition				
Avg. RT	.715	.734	.712	.983
% Correct	.660	.525	.494	.839
Time Sharing				
Difficulty Level	.795	.800	.762	.955
Avg. RT	.637	.641	.598	.936
Self-Crediting Word Knowledge				
Avg. RT	.496	.504	.450	.900
% Correct	.772	.734	.760	1.000
Bet	.620	.598	.633	1.000
Activities Interest Inventory				
Avg. RT	.635	.673	.542	.829
Response Choice	.954	.937	.966	1.000

Note. The column headings for the test conditions refer to the experimental-experimental (Exp-Exp), operational-operational (Op-Op) groups, and the combined groups experimental-operational (Exp-Op) and operational-experimental (Op-Exp).

Measurement equivalency was confirmed. The two scores with adjusted correlations below the target value of .85 (Item Recognition - % correct, .839 and Activities Interest Inventory - Avg RT, .829) were above the lower limit of the 95% confidence interval around the .85 target correlation.

Equating

Subjects tested on the experimental apparatus during the first administration (experimental-experimental or experimental-operational) served as the anchor group during equating. This placed scores from the operational tests on the experimental form metric.

Several equating methods were compared to determine the most appropriate method for each test. The first equating decision was between linear (or z-score) equating and equipercen-tile equating. If the distributional shapes for both tests, experimental and operational, were about the same, linear equating was selected. Linear equating was desired as it requires the estimation of only means and standard deviations of the distribution. Equipercen-tile equating requires estimation of numerous percentile points. The more estimates from any set of data the less the reliability of each estimate.

The similarity of distributional shapes was determined by comparing the indexes of skewness and kurtosis for each distribution. Because large samples frequently lead to rejection of statistical hypotheses when no practical differences exist, any difference in skewness or any difference in kurtosis less than .15 was deemed to be of no practical significance. When differences below .15 were observed, the tests were equated with linear methods.

If differences in distributional shapes occurred, equipercen-tile methods were evaluated to determine the most appropriate smoothing for the curvilinear equating line. Smoothing was by the use of first (linear), second (quadratic), and third (cubic) degree polynomial regressions. The standard error of estimate (SEE) of the polynomial regression smoothing was used as a goodness-of-fit measure to compare the first, second, and third degree smoothings. For example, if one smoothing method such as the second degree provided a substantially smaller SEE than the first degree polynomial, the second degree polynomial was chosen as the smoothing method. All three polynomial smoothings were evaluated for all equipercen-tile equatings. When two smoothing polynomials differed little, the lower degree was chosen to minimize the number of parameters estimated, thereby enhancing robustness of the equating. Table 5 provides the SEE values for each of the polynomial smoothing methods applied to the equipercen-tile equatings.

Results were mixed. For the psychomotor tests (Two-Hand Coordination and Complex Coordination), the cubic polynomial smoothing method produced the best results for four of the five tracking error scores. Linear equating was chosen for the vertical tracking score from Two-Hand Coordination. Quadratic polynomial smoothing was chosen for the Psychomotor composite which is a unit weighted composite of the psychomotor scores.

Linear equating was considered the best method for the remaining scores, with the exception of Activities Interest Inventory response time (equipercen-tile-quadratic). The equating tables in the Appendix convert the scores from the operational test to the raw score based on the experimental test metric.

Table 5. Standard Error of Estimate for Linear, Quadratic, and Cubic Smoothing of Equipercentile Equatings

Test Score	Polynomial Smoothing Method		
	Linear	Quadratic	Cubic
Psychomotor Composite	0.28	0.25	0.25
Two-Hand Coordination			
Horiz. Error	1,410.90	1,041.78	738.28
Vert. Error	500.87	500.41	495.36
Complex Coordination			
Horz. Error	6,443.36	2,704.62	855.69
Vert. Error	6,503.65	2,460.45	1,295.27
Rudder Error	5,554.96	2,436.05	1,520.85
Encoding Speed			
Avg. RT	116.48	86.49	37.10
% Correct	0.54	0.53	0.48
Mental Rotation			
Avg. RT	84.97	78.12	76.01
% Correct	4.62	3.00	1.34
Item Recognition			
Avg. RT	59.83	58.73	55.35
% Correct	3.05	2.82	2.53
Time Sharing			
Difficulty Level	4.32	3.35	3.24
Avg. RT	190.81	182.65	146.09
Self-Crediting Word Knowledge			
Avg. RT	521.00	468.61	335.37
% Correct	1.28	1.26	0.98
Bet	0.41	0.41	0.22
Activities Interest Inventory			
Avg. RT	229.72	148.85	136.87
Response Choice	1.39	0.75	0.72

Use of the operational test is scheduled for the near future. Test scores will be renormed to the operational metric and a new pilot candidate selection equation will be developed after a sufficient number of applicants have been tested and have completed training.

DISCUSSION

The goals of this study were to determine the measurement equivalence (i.e., construct validity) of the operational tests and to derive scores on the operational tests that were comparable to scores on the experimental tests. Adjusted correlations between the experimental and operational tests were acceptable (i.e., the two forms of the tests measured the same construct). Differences in the shapes of the score distributions made it necessary to develop equating tables to convert scores from the operational tests to the experimental metric. Doing so made it appropriate to use scores from the operational tests in a pilot candidate selection model developed using the experimental tests. The differences in the scores between the experimental and operational apparatus were noteworthy. Despite assurances that the operational hardware and software would emulate the experimental hardware and software exactly, substantial differences were observed in scores. No assumptions of equivalence should be made when rehosting the same computer test software in different software and hardware environments. Evaluation of the effects of hardware and software on test performance is always recommended.

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APPENDIX A
Score Equating Tables

Table A-1. Conversion Table for Psychomotor Composite

<u>Operational BAT Score</u>		<u>Scaled BAT</u>	<u>Operational BAT Score</u>		<u>Scaled BAT</u>
Greater Than		Score	Greater Than		Score
or Equal to	Less Than		or Equal to	Less Than	
	-2.5500	-2.1359	.7000	-.6500	-.6848
-2.5500	-2.5000	-2.1099	-.6500	-.6000	-.6337
-2.5000	-2.4500	-2.0833	-.6000	-.5500	-.5820
-2.4500	-2.4000	-2.0560	-.5500	-.5000	-.5296
-2.4000	-2.3500	-2.0280	-.5000	-.4500	-.4766
-2.3500	-2.3000	-1.9994	-.4500	-.4000	-.4229
-2.3000	-2.2500	-1.9701	-.4000	-.3500	-.3685
-2.2500	-2.2000	-1.9402	-.3500	-.3000	-.3135
-2.2000	-2.1500	-1.9096	-.3000	-.2500	-.2578
-2.1500	-2.1000	-1.8783	-.2500	-.2000	-.2015
-2.1000	-2.0500	-1.8464	-.2000	-.1500	-.1445
-2.0500	-2.0000	-1.8138	-.1500	-.1000	-.0868
-2.0000	-1.9500	-1.7806	-.1000	-.0500	-.0285
-1.9500	-1.9000	-1.7467	-.0500	.0000	.0305
-1.9000	-1.8500	-1.7122	.0000	.0500	.0901
-1.8500	-1.8000	-1.6769	.0500	.1000	.1504
-1.8000	-1.7500	-1.6411	.1000	.1500	.2114
-1.7500	-1.7000	-1.6045	.1500	.2000	.2730
-1.7000	-1.6500	-1.5673	.2000	.2500	.3353
-1.6500	-1.6000	-1.5295	.2500	.3000	.3982
-1.6000	-1.5500	-1.4910	.3000	.3500	.4618
-1.5500	-1.5000	-1.4518	.3500	.4000	.5261
-1.5000	-1.4500	-1.4120	.4000	.4500	.5910
-1.4500	-1.4000	-1.3715	.4500	.5000	.6566
-1.4000	-1.3500	-1.3303	.5000	.5500	.7228
-1.3500	-1.3000	-1.2885	.5500	.6000	.7897
-1.3000	-1.2500	-1.2460	.6000	.6500	.8573
-1.2500	-1.2000	-1.2029	.6500	.7000	.9255
-1.2000	-1.1500	-1.1591	.7000	.7500	.9944
-1.1500	-1.1000	-1.1146	.7500	.8000	1.0639
-1.1000	-1.0500	-1.0695	.8000	.8500	1.1341
-1.0500	-1.0000	-1.0237	.8500	.9000	1.2050
-1.0000	-.9500	-.9773	.9000	.9500	1.2765
-.9500	-.9000	-.9302	.9500	1.0000	1.3487
-.9000	-.8500	-.8824	1.0000	1.0500	1.4215
-.8500	-.8000	-.8340	1.0500	1.1000	1.4950
-.8000	-.7500	-.7849	1.1000		1.5000
-.7500	-.7000	-.7352			

Table A-2. Conversion Table for Two-Hand Coordination, Horizontal Error

<u>Operational BAT Score</u>	<u>Scaled BAT Score</u>	<u>Operational BAT Score</u>	<u>Scaled BAT Score</u>		
Greater Than or Equal to	Less Than	Greater Than or Equal to	Less Than		
	2500	0	20500	21000	23886
2500	3000	865	21000	21500	25153
3000	3500	1741	21500	22000	26505
3500	4000	2558	22000	22500	27944
4000	4500	3321	22500	23000	29475
4500	5000	4033	23000	23500	31102
5000	5500	4699	23500	24000	32829
5500	6000	5323	24000	24500	34660
6000	6500	5908	24500	25000	36598
6500	7000	6458	25000	25500	38648
7000	7500	6978	25500		40000
7500	8000	7472			
8000	8500	7942			
8500	9000	8394			
9000	9500	8831			
9500	10000	9257			
10000	10500	9676			
10500	11000	10093			
11000	11500	10510			
11500	12000	10932			
12000	12500	11363			
12500	13000	11807			
13000	13500	12268			
13500	14000	12750			
14000	14500	13256			
14500	15000	13791			
15000	15500	14359			
15500	16000	14963			
16000	16500	15608			
16500	17000	16297			
17000	17500	70350			
17500	18000	17825			
18000	18500	18671			
18500	19000	19578			
19000	19500	20548			
19500	20000	21587			
20000	20500	22699			

Table A-3. Conversion Table for Two-Hand Coordination, Vertical Error

<u>Operational BAT Score</u>	<u>Scaled BAT Score</u>	<u>Operational BAT Score</u>	<u>Scaled BAT Score</u>
Greater Than or Equal to	Less Than	Greater Than or Equal to	Less Than
1100	1100	0	4800
1100	1200	24	4900
1200	1300	123	5000
1300	1400	223	5100
1400	1500	322	5200
1500	1600	421	5300
1600	1700	520	5400
1700	1800	620	5500
1800	1900	719	5600
1900	2000	818	5700
2000	2100	917	5800
2100	2200	1017	5900
2200	2300	1116	6000
2300	2400	1215	6100
2400	2500	1314	6200
2500	2600	1413	6300
2600	2700	1513	6400
2700	2800	1612	6500
2800	2900	1711	6600
2900	3000	1810	6700
3000	3100	1910	6800
3100	3200	2009	6900
3200	3300	2108	7000
3300	3400	2207	7100
3400	3500	2307	7200
3500	3600	2406	7300
3600	3700	2505	7400
3700	3800	2604	7500
3800	3900	2703	7600
3900	4000	2803	7700
4000	4100	2902	7800
4100	4200	3001	7900
4200	4300	3100	8000
4300	4400	3200	8100
4400	4500	3299	8200
4500	4600	3398	8300
4600	4700	3497	8400
4700	4800	3597	8500

Table A-3 continued

<u>Operational BAT Score</u>		Scaled BAT Score	<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than or Equal to	Less Than		Greater Than or Equal to	Less Than	
8600	8700	7467	12500	12600	11337
8700	8800	7566	12600	12700	11436
8800	8900	7665	12700	12800	11535
8900	9000	7764	12800	12900	11634
9000	9100	7864	12900	13000	11734
9100	9200	7963	13000	13100	11833
9200	9300	8062	13100	13200	11932
9300	9400	8161	13200	13300	12031
9400	9500	8260	13300	13400	12131
9500	9600	8360	13400	13500	12230
9600	9700	8459	13500	13600	12329
9700	9800	8558	13600	13700	12428
9800	9900	8657	13700	13800	12527
9900	10000	8757	13800	13900	12627
10000	10100	8856	13900	14000	12726
10100	10200	8955	14000	14100	12825
10200	10300	9054	14100	14200	12924
10300	10400	9154	14200	14300	13024
10400	10500	9253	14300	14400	13123
10500	10600	9352	14400	14500	13222
10600	10700	9451	14500	14600	13321
10700	10800	9551	14600	14700	13421
10800	10900	9650	14700	14800	13520
10900	11000	9749	14800	14900	13619
11000	11100	9848	14900	15000	13718
11100	11200	9947	15000	15100	13818
11200	11300	10047	15100	15200	13917
11300	11400	10146	15200	15300	14016
11400	11500	10245	15300	15400	14115
11500	11600	10344	15400	15500	14214
11600	11700	10444	15500	15600	14314
11700	11800	10543	15600	15700	14413
11800	11900	10642	17300	17400	16100
11900	12000	10741	17400	17500	16199
12000	12100	10841	17500	17600	16298
12100	12200	10940	17600	17700	16398
12200	12300	11039	17700	17800	16497
12300	12400	11138	17800	17900	16596
12400	12500	11237	17900	18000	16695

Table A-3 continued

<u>Operational BAT Score</u>		Scaled BAT Score	<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than or Equal to	Less Than		Greater Than or Equal to	Less Than	
18000	18100	16794	21900	22000	20665
18100	18200	16894	22000	22100	20764
18200	18300	16993	22100	22200	20863
18300	18400	17092	22200	22300	20962
18400	18500	17191	22300	22400	21061
18500	18600	17291	22400	22500	21161
18600	18700	17390	22500	22600	21260
18700	18800	17489	22600	22700	21359
18800	18900	17588	22700	22800	21458
18900	19000	17688	22800	22900	21558
19000	19100	17787	22900	23000	21657
19100	19200	17886	23000	23100	21756
19200	19300	17985	23100	23200	21855
19300	19400	18085	23200	23300	21955
19400	19500	18184	23300	23400	22054
19500	19600	18283	23400	23500	22153
19600	19700	18382	23500	23600	22252
19700	19800	18481	23600	23700	22352
19800	19900	18581	23700	23800	22451
19900	20000	18680	23800	23900	22550
20000	20100	18779	23900	24000	22649
20100	20200	18878	24000	24100	22748
20200	20300	18978	24100	24200	22848
20300	20400	19077	24200	24300	22947
20400	20500	19176	24300	24400	23046
20500	20600	19275	24400	24500	23145
20600	20700	19375	24500	24600	23245
20700	20800	19474	24600	24700	23344
20800	20900	19573	24700	24800	23443
20900	21000	19672	24800	24900	23542
21000	21100	19771	24900	25000	23642
21100	21200	19871	25000	25100	23741
21200	21300	19970	25100	25200	23840
21300	21400	20069	25200	25300	23939
21400	21500	20168	25300	25400	24038
21500	21600	20268	25400	25500	24138
21600	21700	20367	25500	25600	24237
21700	21800	20466	25600	25700	24336
21800	21900	20565	25700	25800	24435

Table A-3 continued

<u>Operational BAT Score</u>		<u>Scaled BAT Score</u>
<u>Greater Than</u>	<u>or Equal to</u>	<u>Less Than</u>
25800	25900	24535
25900	26000	24634
26000	26100	24733
26100	26200	24832
26200	26300	24932
26300	26400	25031
26400	26500	25130
26500		25229

Table A-4. Conversion Table for Complex Coordination, Horizontal Error

<u>Operational BAT Score</u>	<u>Scaled BAT</u>	<u>Operational BAT Score</u>	<u>Scaled BAT</u>
<u>Greater Than or Equal to</u>	<u>Less Than</u>	<u>Greater Than or Equal to</u>	<u>Less Than</u>
4200	4200	0	11400
4200	4400	524	11600
4400	4600	1137	11800
4600	4800	1745	12000
4800	5000	2348	12200
5000	5200	2947	12400
5200	5400	3542	12600
5400	5600	4131	12800
5600	5800	4717	13000
5800	6000	5297	13200
6000	6200	5873	13400
6200	6400	6445	13600
6400	6600	7012	13800
6600	6800	7575	14000
6800	7000	8133	14200
7000	7200	8687	14400
7200	7400	9236	14600
7400	7600	9781	14800
7600	7800	10322	15000
7800	8000	10859	15200
8000	8200	11391	15400
8200	8400	11918	15600
8400	8600	12442	15800
8600	8800	12961	16000
8800	9000	13476	16200
9000	9200	13987	16400
9200	9400	14493	16600
9400	9600	14996	16800
9600	9800	15494	17000
9800	10000	15988	17200
10000	10200	16478	17400
10200	10400	16964	17600
10400	10600	16446	17800
10600	10800	17923	18000
10800	11000	18397	18200
11000	11200	18867	18400
11200	11400	19332	18600
			18800

Table A-4 continued

<u>Operational BAT Score</u>		Scaled BAT Score	<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than or Equal to	Less Than		Greater Than or Equal to	Less Than	
18800	19000	34264	26600	26800	44768
19000	19200	34589	26800	27000	44983
19200	19400	34911	27000	27200	45196
19400	19600	35230	27200	27400	45407
19600	19800	35546	27400	27600	45615
19800	20000	35859	27600	27800	45821
20000	20200	36169	27800	28000	46025
20200	20400	36475	28000	28200	46226
20400	20600	36779	28200	28400	46425
20600	20800	37079	28400	28600	46622
20800	21000	37376	28600	28800	46816
21000	21200	37671	28800	29000	47009
21200	21400	37962	29000	29200	47199
21400	21600	38250	29200	29400	47386
21600	21800	38536	29400	29600	47572
21800	22000	38818	29600	29800	47756
22000	22200	39098	29800	30000	47937
22200	22400	39374	30000	30200	48116
22400	22600	39648	30200	30400	48293
22600	22800	39919	30400	30600	48469
22800	23000	40187	30600	30800	48642
23000	23200	40452	30800	31000	48813
23200	23400	40715	31000	31200	48981
23400	23600	40974	31200	31400	49148
23600	23800	41231	31400	31600	49313
23800	24000	41485	31600	31800	49476
24000	24200	41737	31800	32000	49638
24200	24400	41985	32000	32200	49797
24400	24600	42232	32200	32400	49954
24600	24800	42475	32400	32600	50109
24800	25000	42716	32600	32800	50263
25000	25200	42954	32800	33000	50415
25200	25400	43190	33000	33200	50565
25400	25600	43423	33200	33400	50713
25600	25800	43653	33400	33600	50859
25800	26000	43881	33600	33800	51004
26000	26200	44106	33800	34000	51147
26200	26400	44329	34000	34200	51288
26400	26600	44550	34200	34400	51427

Table A-4 continued

<u>Operational BAT Score</u>		Scaled BAT Score	<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than or Equal to	Less Than		Greater Than or Equal to	Less Than	
34400	34600	51565	42200	42400	55843
34600	34800	51701	42400	42600	55930
34800	35000	51835	42600	42800	56016
35000	35200	51968	42800	43000	56102
35200	35400	52099	43000	43200	56186
35400	35600	52229	43200	43400	56270
35600	35800	52357	43400	43600	56353
35800	36000	52484	43600	43800	56435
36000	36200	52609	43800	44000	56517
36200	36400	52732	44000	44200	56598
36400	36600	52855	44200	44400	56678
36600	36800	52975	44400	44600	56757
36800	37000	53094	44600	44800	56836
37000	37200	53212	44800	45000	56914
37200	37400	53329	45000	45200	56992
37400	37600	53444	45200	45400	57069
37600	37800	53557	45400	45600	57145
37800	38000	53670	45600	45800	57221
38000	38200	53781	45800	46000	57296
38200	38400	53890	46000	46200	57371
38400	38600	53999	46200	46400	57445
38600	38800	54106	46400	46600	57519
38800	39000	54212	46600	46800	57592
39000	39200	54316	46800	47000	57665
39200	39400	54420	47000	47200	57738
39400	39600	54522	47200	47400	57810
39600	39800	54624	47400	47600	57882
39800	40000	54724	47600	47800	57953
40000	40200	54823	47800	48000	58024
40200	40400	54920	48000	48200	58095
40400	40600	55017	48200	48400	58165
40600	40800	55113	48400	48600	58235
40800	41000	55208	48600	48800	58305
41000	41200	55301	48800	49000	58375
41200	41400	55394	49000	49200	58444
41400	41600	55486	49200	49400	58513
41600	41800	55576	49400	49600	58582
41800	42000	55666	49600	49800	58651
42000	42200	55755	49800	50000	58720

Table A-4 continued

<u>Operational BAT Score</u> Greater Than or Equal to	<u>Operational BAT Score</u> Less Than	Scaled BAT Score	<u>Operational BAT Score</u> Greater Than or Equal to	<u>Operational BAT Score</u> Less Than	Scaled BAT Score
50000	50200	58789	57800	58000	61590
50200	50400	58857	58000	58200	61670
50400	50600	58926	58200	58400	61751
50600	50800	58994	58400	58600	61833
50800	51000	59063	58600	58800	61916
51000	51200	59131	58800	59000	61999
51200	51400	59199	59000	59200	62083
51400	51600	59268	59200	59400	62168
51600	51800	59336	59400	59600	62254
51800	52000	59405	59600	59800	62341
52000	52200	59473	59800	60000	62428
52200	52400	59542	60000	60200	62517
52400	52600	59611	60200	60400	62606
52600	52800	59680	60400	60600	62696
52800	53000	59749	60600	60800	62787
53000	53200	59818	60800	61000	62879
53200	53400	59888	61000	61200	62973
53400	53600	59958	61200	61400	63067
53600	53800	60028	61400	61600	63162
53800	54000	60098	61600	61800	63258
54000	54200	60168	61800	62000	63355
54200	54400	60239	62000	62200	63454
54400	54600	60310	62200	62400	63553
54600	54800	60382	62400	62600	63654
54800	55000	60454	62600	62800	63755
55000	55200	60526	62800	63000	63858
55200	55400	60599	63000	63200	63962
55400	55600	60672	63200	63400	64068
55600	55800	60745	63400	63600	64174
55800	56000	60819	63600	63800	64282
56000	56200	60894	63800	64000	64391
56200	56400	60969	64000	64200	64501
56400	56600	61044	64200	64400	64613
56600	56800	61121	64400	64600	64726
56800	57000	61197	64600	64800	64840
57000	57200	61274	64800	65000	64956
57200	57400	61352	65000	65200	65073
57400	57600	61431	65200	65400	65191
57600	57800	61510	65400	65600	65311

Table A-4 continued

<u>Operational BAT Score</u>		<u>Scaled BAT Score</u>
Greater Than or Equal to	Less Than	
65600	65800	65432
65800	66000	65555
66000	66200	65679
66200	66400	65805
66400	66600	65932
66600	66800	66061
66800	67000	66192
67000	67200	66324
67200	67400	66457
67400	67600	66592
67600	67800	66729
67800	68000	66868
68000	68200	67008
68200	68400	67150
68400	68600	67294
68600	68800	67439
68800	69000	67586
69000	69200	67735
69200	69400	67886
69400	69600	68038
69600	69800	68193
69800	70000	68349
70000	70200	68507
70200	70400	68667
70400	70600	68829
70600	70800	68993
70800	71000	69159
71000	71200	69327
71200	71400	69497
71400	71600	69669
71600	71800	69843
71800	72000	70019
72000		70197

Table A-5. Conversion Table for Complex Coordination, Vertical Error

<u>Operational BAT Score</u>	<u>Scaled BAT Score</u>	<u>Operational BAT Score</u>	<u>Scaled BAT Score</u>
Greater Than or Equal to	Less Than	Greater Than or Equal to	Less Than
3600	3600	0	
3600	3800	427	11000
3800	4000	1013	11200
4000	4200	1595	11400
4200	4400	2173	11600
4400	4600	2747	11800
4600	4800	3317	12000
4800	5000	3884	12200
5000	5200	4446	12400
5200	5400	5005	12600
5400	5600	5559	12800
5600	5800	6110	13000
5800	6000	6658	13200
6000	6200	7201	13400
6200	6400	7741	13600
6400	6600	8277	13800
6600	6800	8809	14000
6800	7000	9337	14200
7000	7200	9862	14400
7200	7400	10383	14600
7400	7600	10900	14800
7600	7800	11414	15000
7800	8000	11924	15200
8000	8200	12430	15400
8200	8400	12933	15600
8400	8600	13433	15800
8600	8800	13928	16000
8800	9000	14420	16200
9000	9200	14909	16400
9200	9400	15394	16600
9400	9600	15875	16800
9600	9800	16354	17000
9800	10000	16828	17200
10000	10200	17299	17400
10200	10400	17767	17600
10400	10600	18231	17800
10600	10800	18692	18000
10800	11000	19149	18200

Table A-5 continued

<u>Operational BAT Score</u> Greater Than or Equal to	<u>Operational BAT Score</u> Less Than	Scaled BAT Score	<u>Operational BAT Score</u> Greater Than or Equal to	<u>Operational BAT Score</u> Less Than	Scaled BAT Score
18400	18600	34161	26200	26400	45379
18600	18800	34498	26400	26600	45619
18800	19000	34832	26600	26800	45856
19000	19200	35163	26800	27000	46092
19200	19400	35491	27000	27200	46326
19400	19600	35817	27200	27400	46557
19600	19800	36140	27400	27600	46786
19800	20000	36461	27600	27800	47013
20000	20200	36778	27800	28000	47238
20200	20400	37093	28000	28200	47462
20400	20600	37405	28200	28400	47683
20600	20800	37715	28400	28600	47901
20800	21000	38022	28600	28800	48118
21000	21200	38327	28800	29000	48333
21200	21400	38629	29000	29200	48546
21400	21600	38928	29200	29400	48757
21600	21800	39225	29400	29600	48966
21800	22000	39519	29600	29800	49174
22000	22200	39810	29800	30000	49379
22200	22400	40100	30000	30200	49582
22400	22600	40386	30200	30400	49783
22600	22800	40670	30400	30600	49983
22800	23000	40952	30600	30800	50181
23000	23200	41231	30800	31000	50376
23200	23400	41508	31000	31200	50570
23400	23600	41783	31200	31400	50763
23600	23800	42055	31400	31600	50953
23800	24000	42324	31600	31800	51142
24000	24200	42591	31800	32000	51329
24200	24400	42856	32000	32200	51514
24400	24600	43119	32200	32400	51697
24600	24800	43379	32400	32600	51879
24800	25000	43637	32600	32800	52059
25000	25200	43892	32800	33000	52237
25200	25400	44146	33000	33200	52414
25400	25600	44397	33200	33400	52588
25600	25800	44646	33400	33600	52762
25800	26000	44892	33600	33800	52933
26000	26200	45137	33800	34000	53104

Table A-5 continued

<u>Operational BAT Score</u>		Scaled BAT Score	<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than or Equal to	Less Than		Greater Than or Equal to	Less Than	
34000	34200	53272	41800	42000	58768
34200	34400	53439	42000	42200	58886
34400	34600	53604	42200	42400	59002
34600	34800	53768	42400	42600	59118
34800	35000	53930	42600	42800	59233
35000	35200	54091	42800	43000	59347
35200	35400	54250	43000	43200	59460
35400	35600	54408	43200	43400	59572
35600	35800	54565	43400	43600	59683
35800	36000	54719	43600	43800	59794
36000	36200	54873	43800	44000	59903
36200	36400	55025	44000	44200	60012
36400	36600	55175	44200	44400	60120
36600	36800	55325	44400	44600	60227
36800	37000	55472	44600	44800	60334
37000	37200	55619	44800	45000	60439
37200	37400	55764	45000	45200	60544
37400	37600	55908	45200	45400	60649
37600	37800	56050	45400	45600	60752
37800	38000	56192	45600	45800	60855
38000	38200	56332	45800	46000	60957
38200	38400	56470	46000	46200	61059
38400	38600	56608	46200	46400	61160
38600	38800	56744	46400	46600	61260
38800	39000	56879	46600	46800	61360
39000	39200	57013	46800	47000	61459
39200	39400	57145	47000	47200	61558
39400	39600	57277	47200	47400	61655
39600	39800	57407	47400	47600	61753
39800	40000	57536	47600	47800	61850
40000	40200	57664	47800	48000	61946
40200	40400	57791	48000	48200	62042
40400	40600	57917	48200	48400	62137
40600	40800	58041	48400	48600	62232
40800	41000	58165	48600	48800	62327
41000	41200	58288	48800	49000	62421
41200	41400	58409	49000	49200	62515
41400	41600	58530	49200	49400	62608
41600	41800	58649	49400	49600	62701

Table A-5 continued

<u>Operational BAT Score</u> Greater Than or Equal to	<u>Less Than</u>	<u>Scaled BAT Score</u>	<u>Operational BAT Score</u> Greater Than or Equal to	<u>Less Than</u>	<u>Scaled BAT Score</u>
49600	49800	62793	57400	57600	66274
49800	50000	62885	57600	57800	66365
50000	50200	62977	57800	58000	66455
50200	50400	63068	58000	58200	66546
50400	50600	63159	58200	58400	66637
50600	50800	63250	58400	58600	66729
50800	51000	63341	58600	58800	66821
51000	51200	63431	58800	59000	66913
51200	51400	63521	59000	59200	67006
51400	51600	63611	59200	59400	67098
51600	51800	63701	59400	59600	67192
51800	52000	63790	59600	59800	67285
52000	52200	63879	59800	60000	67380
52200	52400	63968	60000	60200	67474
52400	52600	64057	60200	60400	67569
52600	52800	64146	60400	60600	67665
52800	53000	64234	60600	60800	67761
53000	53200	64323	60800	61000	67857
53200	53400	64411	61000	61200	67954
53400	53600	64500	61200	61400	68052
53600	53800	64588	61400	61600	68150
53800	54000	64676	61600	61800	68249
54000	54200	64764	61800	62000	68348
54200	54400	64853	62000	62200	68448
54400	54600	64941	62200	62400	68548
54600	54800	65029	62400	62600	68649
54800	55000	65117	62600	62800	68751
55000	55200	65205	62800	63000	68853
55200	55400	65294	63000	63200	68956
55400	55600	65382	63200	63400	69060
55600	55800	65471	63400	63600	69164
55800	56000	65559	63600	63800	69270
56000	56200	65648	63800	64000	69376
56200	56400	65737	64000	64200	69482
56400	56600	65826	64200	64400	69590
56600	56800	65915	64400	64600	69698
56800	57000	66005	64600	64800	69807
57000	57200	66094	64800	65000	69917
57200	57400	66184	65000	65200	70027

Table A-5 continued

<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than		
or Equal to	Less Than	
65200	65400	70139
65400	65600	70251
65600	65800	70364
65800	66000	70478
66000	66200	70594
66200	66400	70709
66400	66600	70826
66600	66800	70944
66800	67000	71063
67000	67200	71183
67200	67400	71304
67400	67600	71425
67600	67800	71548
67800	68000	71672
68000	68200	71797
68200	68400	71923
68400		72000

Table A-6. Conversion Table for Complex Coordination, Rudder Error

<u>Operational BAT Score</u>	<u>Scaled BAT Score</u>	<u>Operational BAT Score</u>	<u>Scaled BAT Score</u>		
Greater Than or Equal to	Less Than	Greater Than or Equal to	Less Than		
	3200	0	10600	10800	17579
3200	3400	427	10800	11000	17985
3400	3600	948	11000	11200	18388
3600	3800	1466	11200	11400	18788
3800	4000	1981	11400	11600	19186
4000	4200	2492	11600	11800	19580
4200	4400	3000	11800	12000	19972
4400	4600	3505	12000	12200	20361
4600	4800	4006	12200	12400	20747
4800	5000	4504	12400	12600	21130
5000	5200	4999	12600	12800	21511
5200	5400	5490	12800	13000	21888
5400	5600	5978	13000	13200	22264
5600	5800	6463	13200	13400	22636
5800	6000	6945	13400	13600	23006
6000	6200	7424	13600	13800	23373
6200	6400	7899	13800	14000	23737
6400	6600	8372	14000	14200	24099
6600	6800	8841	14200	14400	24458
6800	7000	9307	14400	14600	24814
7000	7200	9769	14600	14800	25168
7200	7400	10229	14800	15000	25519
7400	7600	10686	15000	15200	25868
7600	7800	11139	15200	15400	26214
7800	8000	11590	15400	15600	26558
8000	8200	12037	15600	15800	26899
8200	8400	12481	15800	16000	27237
8400	8600	12922	16000	16200	27573
8600	8800	13361	16200	16400	27906
8800	9000	13796	16400	16600	28237
9000	9200	14228	16600	16800	28566
9200	9400	14657	16800	17000	28892
9400	9600	15083	17000	17200	29215
9600	9800	15507	17200	17400	29536
9800	10000	15927	17400	17600	29855
10000	10200	16344	17600	17800	30171
10200	10400	16759	17800	18000	30485
10400	10600	17171	18000	18200	30797

Table A-6 continued

<u>Operational BAT Score</u>		Scaled BAT Score	<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than or Equal to	Less Than		Greater Than or Equal to	Less Than	
18200	18400	31106	26000	26200	41463
18400	18600	31413	26200	26400	41689
18600	18800	31717	26400	26600	41913
18800	19000	32019	26600	26800	42135
19000	19200	32319	26800	27000	42355
19200	19400	32616	27000	27200	42574
19400	19600	32912	27200	27400	42791
19600	19800	33205	27400	27600	43006
19800	20000	33495	27600	27800	43219
20000	20200	33784	27800	28000	43431
20200	20400	34070	28000	28200	43641
20400	20600	34354	28200	28400	43849
20600	20800	34636	28400	28600	44056
20800	21000	34916	28600	28800	44261
21000	21200	35193	28800	29000	44464
21200	21400	35468	29000	29200	44666
21400	21600	35741	29200	29400	44866
21600	21800	36012	29400	29600	45065
21800	22000	36281	29600	29800	45262
22000	22200	36548	29800	30000	45457
22200	22400	36813	30000	30200	45651
22400	22600	37075	30200	30400	45843
22600	22800	37336	30400	30600	46034
22800	23000	37594	30600	30800	46223
23000	23200	37851	30800	31000	46411
23200	23400	38105	31000	31200	46597
23400	23600	38358	31200	31400	46782
23600	23800	38608	31400	31600	46965
23800	24000	38857	31600	31800	47147
24000	24200	39103	31800	32000	47328
24200	24400	39348	32000	32200	47507
24400	24600	39590	32200	32400	47684
24600	24800	39831	32400	32600	47861
24800	25000	40070	32600	32800	48036
25000	25200	40307	32800	33000	48209
25200	25400	40542	33000	33200	48381
25400	25600	40775	33200	33400	48552
25600	25800	41006	33400	33600	48721
25800	26000	41235	33600	33800	48890

Table A-6 continued

<u>Operational BAT Score</u>		Scaled BAT Score	<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than or Equal to	Less Than		Greater Than or Equal to	Less Than	
33800	34000	49057	41600	41800	54702
34000	34200	49222	41800	42000	54828
34200	34400	49387	42000	42200	54954
34400	34600	49550	42200	42400	55079
34600	34800	49711	42400	42600	55203
34800	35000	49872	42600	42800	55326
35000	35200	50031	42800	43000	55449
35200	35400	50190	43000	43200	55571
35400	35600	50347	43200	43400	55693
35600	35800	50503	43400	43600	55814
35800	36000	50657	43600	43800	55934
36000	36200	50811	43800	44000	56054
36200	36400	50963	44000	44200	56173
36400	36600	51115	44200	44400	56291
36600	36800	51265	44400	44600	56409
36800	37000	51414	44600	44800	56527
37000	37200	51562	44800	45000	56643
37200	37400	51709	45000	45200	56760
37400	37600	51855	45200	45400	56875
37600	37800	52000	45400	45600	56991
37800	38000	52144	45600	45800	57106
38000	38200	52286	45800	46000	57220
38200	38400	52428	46000	46200	57334
38400	38600	52569	46200	46400	57447
38600	38800	52709	46400	46600	57560
38800	39000	52848	46600	46800	57673
39000	39200	52986	46800	47000	57785
39200	39400	53123	47000	47200	57897
39400	39600	53260	47200	47400	58008
39600	39800	53395	47400	47600	58119
39800	40000	53529	47600	47800	58230
40000	40200	53663	47800	48000	58340
40200	40400	53796	48000	48200	58450
40400	40600	53927	48200	48400	58560
40600	40800	54058	48400	48600	58670
40800	41000	54189	48600	48800	58779
41000	41200	54318	48800	49000	58888
41200	41400	54447	49000	49200	58997
41400	41600	54575	49200	49400	59105

Table A-6 continued

<u>Operational BAT Score</u>		Scaled BAT Score	<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than or Equal to	Less Than		Greater Than or Equal to	Less Than	
49400	49600	59213	57200	57400	63406
49600	49800	59321	57400	57600	63516
49800	50000	59429	57600	57800	63627
50000	50200	59537	57800	58000	63738
50200	50400	59644	58000	58200	63850
50400	50600	59751	58200	58400	63962
50600	50800	59859	58400	58600	64074
50800	51000	59966	58600	58800	64187
51000	51200	60072	58800	59000	64300
51200	51400	60179	59000	59200	64414
51400	51600	60286	59200	59400	64528
51600	51800	60393	59400	59600	64643
51800	52000	60499	59600	59800	64758
52000	52200	60606	59800	60000	64873
52200	52400	60712	60000	60200	64989
52400	52600	60819	60200	60400	65106
52600	52800	60925	60400	60600	65223
52800	53000	61032	60600	60800	65340
53000	53200	61138	60800	61000	65459
53200	53400	61245	61000	61200	65577
53400	53600	61352	61200	61400	65697
53600	53800	61458	61400	61600	65817
53800	54000	61565	61600	61800	65937
54000	54200	61672	61800	62000	66058
54200	54400	61779	62000	62200	66180
54400	54600	61886	62200	62400	66303
54600	54800	61993	62400	62600	66426
54800	55000	62101	62600	62800	66550
55000	55200	62208	62800	63000	66674
55200	55400	62316	63000	63200	66800
55400	55600	62424	63200	63400	66926
55600	55800	62532	63400	63600	67052
55800	56000	62640	63600	63800	67180
56000	56200	62749	63800	64000	67308
56200	56400	62858	64000	64200	67437
56400	56600	62967	64200	64400	67567
56600	56800	63076	64400	64600	67697
56800	57000	63186	64600	64800	67829
57000	57200	63295	64800	65000	67961

Table A-6 continued

<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than or Equal to	Less Than	
65000	65200	68094
65200	65400	68228
65400	65600	68363
65600	65800	68499
65800	66000	68635
66000	66200	68773
66200	66400	68911
66400	66600	69051
66600	66800	69191
66800	67000	69333
67000	67200	69475
67200	67400	69618
67400	67600	69763
67600	67800	69908
67800	68000	70054
68000	68200	70202
68200	68400	70350
68400	68600	70500
68600	68800	70651
68800	69000	70803
69000	69200	70956
69200	69400	71110
69400	69600	71265
69600	69800	71421
69800	70000	71579
70000	70200	71738
70200	70400	71898
70400		72000

Table A-7. Conversion Table for Encoding Speed, Average Response Time

<u>Operational BAT Score</u>		Scaled BAT Score	<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than or Equal to	Less Than		Greater Than or Equal to	Less Than	
	50.0	.0	1900.0	1950.0	2030.2
50.0	100.0	45.3	1950.0	2000.0	2083.8
100.0	150.0	99.0	2000.0	2050.0	2137.5
150.0	200.0	152.6	2050.0	2100.0	2191.1
200.0	250.0	206.3	2100.0	2150.0	2244.7
250.0	300.0	259.9	2150.0	2200.0	2298.4
300.0	350.0	313.6	2200.0	2250.0	2352.0
350.0	400.0	367.2	2250.0	2300.0	2405.7
400.0	450.0	420.9	2300.0	2350.0	2459.3
450.0	500.0	474.5	2350.0	2400.0	2513.0
500.0	550.0	528.1	2400.0	2450.0	2566.6
550.0	600.0	581.8	2450.0	2500.0	2620.3
600.0	650.0	635.4	2500.0		2673.9
650.0	700.0	689.1			
700.0	750.0	742.7			
750.0	800.0	796.4			
800.0	850.0	850.0			
850.0	900.0	903.6			
900.0	950.0	957.3			
950.0	1000.0	1010.9			
1000.0	1050.0	1064.6			
1050.0	1100.0	1118.2			
1100.0	1150.0	1171.9			
1150.0	1200.0	1225.5			
1200.0	1250.0	1279.2			
1250.0	1300.0	1332.8			
1300.0	1350.0	1386.4			
1350.0	1400.0	1440.1			
1400.0	1450.0	1493.7			
1450.0	1500.0	1547.4			
1500.0	1550.0	1601.0			
1550.0	1600.0	1654.7			
1600.0	1650.0	1708.3			
1650.0	1700.0	1762.0			
1700.0	1750.0	1815.6			
1750.0	1800.0	1869.2			
1800.0	1850.0	1922.9			
1850.0	1900.0	1976.5			

Table A-8. Conversion Table for Encoding Speed, Percent Correct

<u>Operational BAT Score</u>		<u>Scaled BAT Score</u>	<u>Operational BAT Score</u>		<u>Scaled BAT Score</u>
Greater Than or Equal to	Less Than		Greater Than or Equal to	Less Than	
.50	.50	4.15	19.00	19.50	22.24
.50	1.00	4.63	19.50	20.00	22.72
1.00	1.50	5.11	20.00	20.50	23.19
1.50	2.00	5.58	20.50	21.00	23.67
2.00	2.50	6.06	21.00	21.50	24.15
2.50	3.00	6.53	21.50	22.00	24.62
3.00	3.50	7.01	22.00	22.50	25.10
3.50	4.00	7.49	22.50	23.00	25.57
4.00	4.50	7.96	23.00	23.50	26.05
4.50	5.00	8.44	23.50	24.00	26.53
5.00	5.50	8.91	24.00	24.50	27.00
5.50	6.00	9.39	24.50	25.00	27.48
6.00	6.50	9.87	25.00	25.50	27.96
6.50	7.00	10.34	25.50	26.00	28.43
7.00	7.50	10.82	26.00	26.50	28.91
7.50	8.00	11.29	26.50	27.00	29.38
8.00	8.50	11.77	27.00	27.50	29.86
8.50	9.00	12.25	27.50	28.00	30.34
9.00	9.50	12.72	28.00	28.50	30.81
9.50	10.00	13.20	28.50	29.00	31.29
10.00	10.50	13.67	29.00	29.50	31.76
10.50	11.00	14.15	29.50	30.00	32.24
11.00	11.50	14.63	30.00	30.50	32.72
11.50	12.00	15.10	30.50	31.00	33.19
12.00	12.50	15.58	31.00	31.50	33.67
12.50	13.00	16.05	31.50	32.00	34.14
13.00	13.50	16.53	32.00	32.50	34.62
13.50	14.00	17.01	32.50	33.00	35.10
14.00	14.50	17.48	33.00	33.50	35.57
14.50	15.00	17.96	33.50	34.00	36.05
15.00	15.50	18.43	34.00	34.50	36.52
15.50	16.00	18.91	34.50	35.00	37.00
16.00	16.50	19.39	35.00	35.50	37.48
16.50	17.00	19.86	35.50	36.00	37.95
17.00	17.50	20.34	36.00	36.50	38.43
17.50	18.00	20.81	36.50	37.00	38.90
18.00	18.50	21.29	37.00	37.50	39.38
18.50	19.00	21.77	37.50	38.00	39.86

Table A-8 continued

<u>Operational BAT Score</u>		Scaled	<u>Operational BAT Score</u>		Scaled
Greater Than		BAT	Greater Than		BAT
or Equal to	Less Than	Score	or Equal to	Less Than	Score
38.00	38.50	40.33	57.50	58.00	58.90
38.50	39.00	40.81	58.00	58.50	59.37
39.00	39.50	41.28	58.50	59.00	59.85
39.50	40.00	41.76	59.00	59.50	60.33
40.00	40.50	42.24	59.50	60.00	60.80
40.50	41.00	42.71	60.00	60.50	61.28
41.00	41.50	43.19	60.50	61.00	61.75
41.50	42.00	43.66	61.00	61.50	62.23
42.00	42.50	44.14	61.50	62.00	62.71
42.50	43.00	44.62	62.00	62.50	63.18
43.00	43.50	45.09	62.50	63.00	63.66
43.50	44.00	45.57	63.00	63.50	64.13
44.00	44.50	46.04	63.50	64.00	64.61
44.50	45.00	46.52	64.00	64.50	65.09
45.00	45.50	47.00	64.50	65.00	65.56
45.50	46.00	47.47	65.00	65.50	66.04
46.00	46.50	47.95	65.50	66.00	66.51
46.50	47.00	48.43	66.00	66.50	66.99
47.00	47.50	48.90	66.50	67.00	67.47
47.50	48.00	49.38	67.00	67.50	67.94
48.00	48.50	49.85	67.50	68.00	68.42
48.50	49.00	50.33	68.00	68.50	68.89
49.00	49.50	50.81	68.50	69.00	69.37
49.50	50.00	51.28	69.00	69.50	69.85
50.00	50.50	51.76	69.50	70.00	70.32
50.50	51.00	52.23	70.00	70.50	70.80
51.00	51.50	52.71	70.50	71.00	71.28
51.50	52.00	53.19	71.00	71.50	71.75
52.00	52.50	53.66	71.50	72.00	72.23
52.50	53.00	54.14	72.00	72.50	72.70
53.00	53.50	54.61	72.50	73.00	73.18
53.50	54.00	55.09	73.00	73.50	73.66
54.00	54.50	55.57	73.50	74.00	74.13
54.50	55.00	56.04	74.00	74.50	74.61
55.00	55.50	56.52	74.50	75.00	75.08
55.50	56.00	56.99	75.00	75.50	75.56
56.00	56.50	57.47	75.50	76.00	76.04
56.50	57.00	57.95	76.00	76.50	76.51
57.00	57.50	58.42	76.50	77.00	76.99

Table A-8 continued

<u>Operational BAT Score</u> Greater Than or Equal to	<u>Less Than</u>	Scaled BAT Score	<u>Operational BAT Score</u> Greater Than or Equal to	<u>Less Than</u>	Scaled BAT Score
77.00	77.50	77.46	96.00	96.50	95.55
77.50	78.00	77.94	96.50	97.00	96.03
78.00	78.50	78.42	97.00	97.50	96.51
78.50	79.00	78.89	97.50	98.00	96.98
79.00	79.50	79.37	98.00	98.50	97.46
79.50	80.00	79.84	98.50	99.00	97.93
80.00	80.50	80.32	99.00	99.50	98.41
80.50	81.00	80.80	99.50	100.00	98.89
81.00	81.50	81.27	100.00		99.36
81.50	82.00	81.75			
82.00	82.50	82.22			
82.50	83.00	82.70			
83.00	83.50	83.18			
83.50	84.00	83.65			
84.00	84.50	84.13			
84.50	85.00	84.60			
85.00	85.50	85.08			
85.50	86.00	85.56			
86.00	86.50	86.03			
86.50	87.00	86.51			
87.00	87.50	86.98			
87.50	88.00	87.46			
88.00	88.50	87.94			
88.50	89.00	88.41			
89.00	89.50	88.89			
89.50	90.00	89.36			
90.00	90.50	89.84			
90.50	91.00	90.32			
91.00	91.50	90.79			
91.50	92.00	91.27			
92.00	92.50	91.74			
92.50	93.00	92.22			
93.00	93.50	92.70			
93.50	94.00	93.17			
94.00	94.50	93.65			
94.50	95.00	94.13			
95.00	95.50	94.60			
95.50	96.00	95.08			

Table A-9. Conversion Table for Mental Rotation, Average Response Time

<u>Operational BAT Score</u>	<u>Scaled BAT Score</u>	<u>Operational BAT Score</u>	<u>Scaled BAT Score</u>
<u>Greater Than or Equal to</u>	<u>Less Than</u>	<u>Greater Than or Equal to</u>	<u>Less Than</u>
	100.0	.0	1950.0
100.0	150.0	44.6	2000.0
150.0	200.0	94.7	2050.0
200.0	250.0	144.9	2100.0
250.0	300.0	195.0	2150.0
300.0	350.0	245.1	2200.0
350.0	400.0	295.3	2250.0
400.0	450.0	345.4	2300.0
450.0	500.0	395.5	2350.0
500.0	550.0	445.7	2400.0
550.0	600.0	495.8	2450.0
600.0	650.0	546.0	2500.0
650.0	700.0	596.1	
700.0	750.0	646.2	
750.0	800.0	696.4	
800.0	850.0	746.5	
850.0	900.0	796.6	
900.0	950.0	846.8	
950.0	1000.0	896.9	
1000.0	1050.0	947.1	
1050.0	1100.0	997.2	
1100.0	1150.0	1047.3	
1150.0	1200.0	1097.5	
1200.0	1250.0	1147.6	
1250.0	1300.0	1197.7	
1300.0	1350.0	1247.9	
1350.0	1400.0	1298.0	
1400.0	1450.0	1348.2	
1450.0	1500.0	1398.3	
1500.0	1550.0	1448.4	
1550.0	1600.0	1498.6	
1600.0	1650.0	1548.7	
1650.0	1700.0	1598.8	
1700.0	1750.0	1649.0	
1750.0	1800.0	1699.1	
1800.0	1850.0	1749.3	
1850.0	1900.0	1799.4	
1900.0	1950.0	1849.5	

Table A-10. Conversion Table for Mental Rotation, Percent Correct

<u>Operational BAT Score</u>		<u>Scaled BAT Score</u>	<u>Operational BAT Score</u>		<u>Scaled BAT Score</u>
<u>Greater Than or Equal to</u>	<u>Less Than</u>		<u>Greater Than or Equal to</u>	<u>Less Than</u>	
	.50	2.25	19.00	19.50	20.85
.50	1.00	2.74	19.50	20.00	21.34
1.00	1.50	3.23	20.00	20.50	21.83
1.50	2.00	3.72	20.50	21.00	22.32
2.00	2.50	4.20	21.00	21.50	22.81
2.50	3.00	4.69	21.50	22.00	23.30
3.00	3.50	5.18	22.00	22.50	23.79
3.50	4.00	5.67	22.50	23.00	24.27
4.00	4.50	6.16	23.00	23.50	24.76
4.50	5.00	6.65	23.50	24.00	25.25
5.00	5.50	7.14	24.00	24.50	25.74
5.50	6.00	7.63	24.50	25.00	26.23
6.00	6.50	8.12	25.00	25.50	26.72
6.50	7.00	8.61	25.50	26.00	27.21
7.00	7.50	9.10	26.00	26.50	27.70
7.50	8.00	9.59	26.50	27.00	28.19
8.00	8.50	10.08	27.00	27.50	28.68
8.50	9.00	10.57	27.50	28.00	29.17
9.00	9.50	11.06	28.00	28.50	29.66
9.50	10.00	11.55	28.50	29.00	30.15
10.00	10.50	12.04	29.00	29.50	30.64
10.50	11.00	12.53	29.50	30.00	31.13
11.00	11.50	13.02	30.00	30.50	31.62
11.50	12.00	13.51	30.50	31.00	32.11
12.00	12.50	13.99	31.00	31.50	32.60
12.50	13.00	14.48	31.50	32.00	33.09
13.00	13.50	14.97	32.00	32.50	33.58
13.50	14.00	15.46	32.50	33.00	34.06
14.00	14.50	15.95	33.00	33.50	34.55
14.50	15.00	16.44	33.50	34.00	35.04
15.00	15.50	16.93	34.00	34.50	35.53
15.50	16.00	17.42	34.50	35.00	36.02
16.00	16.50	17.91	35.00	35.50	36.51
16.50	17.00	18.40	35.50	36.00	37.00
17.00	17.50	18.89	36.00	36.50	37.49
17.50	18.00	19.38	36.50	37.00	37.98
18.00	18.50	19.87	37.00	37.50	38.47
18.50	19.00	20.36	37.50	38.00	38.96

Table A-10 continued

<u>Operational BAT Score</u>		Scaled BAT Score	<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than or Equal to	Less Than		Greater Than or Equal to	Less Than	
38.00	38.50	39.45	57.50	58.00	58.54
38.50	39.00	39.94	58.00	58.50	59.03
39.00	39.50	40.43	58.50	59.00	59.52
39.50	40.00	40.92	59.00	59.50	60.01
40.00	40.50	41.41	59.50	60.00	60.50
40.50	41.00	41.90	60.00	60.50	60.99
41.00	41.50	42.39	60.50	61.00	61.48
41.50	42.00	42.88	61.00	61.50	61.97
42.00	42.50	43.37	61.50	62.00	62.46
42.50	43.00	43.86	62.00	62.50	62.95
43.00	43.50	44.34	62.50	63.00	63.44
43.50	44.00	44.83	63.00	63.50	63.93
44.00	44.50	45.32	63.50	64.00	64.41
44.50	45.00	45.81	64.00	64.50	64.90
45.00	45.50	46.30	64.50	65.00	65.39
45.50	46.00	46.79	65.00	65.50	65.88
46.00	46.50	47.28	65.50	66.00	66.37
46.50	47.00	47.77	66.00	66.50	66.86
47.00	47.50	48.26	66.50	67.00	67.35
47.50	48.00	48.75	67.00	67.50	67.84
48.00	48.50	49.24	67.50	68.00	68.33
48.50	49.00	49.73	68.00	68.50	68.82
49.00	49.50	50.22	68.50	69.00	69.31
49.50	50.00	50.71	69.00	69.50	69.80
50.00	50.50	51.20	69.50	70.00	70.29
50.50	51.00	51.69	70.00	70.50	70.78
51.00	51.50	52.18	70.50	71.00	71.27
51.50	52.00	52.67	71.00	71.50	71.76
52.00	52.50	53.16	71.50	72.00	72.25
52.50	53.00	53.65	71.50	72.00	72.25
53.00	53.50	54.14	72.00	72.50	72.74
53.50	54.00	54.62	72.50	73.00	73.23
54.00	54.50	55.11	73.00	73.50	73.72
54.50	55.00	55.60	73.50	74.00	74.21
55.00	55.50	56.09	74.00	74.50	74.69
55.50	56.00	56.58	74.50	75.00	75.18
56.00	56.50	57.07	75.00	75.50	75.67
56.50	57.00	57.56	75.50	76.00	76.16
57.00	57.50	58.05	76.00	76.50	76.65

Table A-10 continued

<u>Operational BAT Score</u>		Scaled BAT Score	<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than or Equal to	Less Than		Greater Than or Equal to	Less Than	
76.50	77.00	77.14	95.50	96.00	95.74
77.00	77.50	77.63	96.00	96.50	96.23
77.50	78.00	78.12	96.50	97.00	96.72
78.00	78.50	78.61	97.00	97.50	97.21
78.50	79.00	79.10	97.50	98.00	97.70
79.00	79.50	79.59	98.00	98.50	98.19
79.50	80.00	80.08	98.50	99.00	98.68
80.00	80.50	80.57	99.00	99.50	99.17
80.50	81.00	81.06	99.50	100.00	99.66
81.00	81.50	81.06	100.00		100.15
81.50	82.00	81.55			
82.00	82.50	82.04			
82.50	83.00	82.53			
83.00	83.50	83.02			
83.50	84.00	83.51			
84.00	84.50	84.00			
84.50	85.00	84.48			
85.00	85.50	84.97			
85.50	86.00	85.46			
86.00	86.50	85.95			
86.50	87.00	86.44			
87.00	87.50	86.93			
87.50	88.00	87.42			
88.00	88.50	87.91			
88.50	89.00	88.40			
89.00	89.50	88.89			
89.50	90.00	89.38			
90.00	90.50	89.87			
90.50	91.00	90.36			
91.00	91.50	90.85			
91.50	92.00	91.34			
92.00	92.50	91.83			
92.50	93.00	92.32			
93.00	93.50	92.81			
93.50	94.00	93.30			
94.00	94.50	93.79			
94.50	95.00	94.28			
95.00	95.50	94.76			
		95.25			

Table A-11. Conversion Table for Item Recognition, Average Response Time

<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than	Less Than	
	100.0	.0
100.0	200.0	37.3
200.0	300.0	136.3
300.0	400.0	235.3
400.0	500.0	334.3
500.0	600.0	433.3
600.0	700.0	532.4
700.0	800.0	631.4
800.0	900.0	730.4
900.0	1000.0	829.4
1000.0	1100.0	928.4
1100.0	1200.0	1027.4
1200.0	1300.0	1126.4
1300.0	1400.0	1225.4
1400.0	1500.0	1324.4
1500.0	1600.0	1423.4
1600.0	1700.0	1522.4
1700.0	1800.0	1621.4
1800.0	1900.0	1720.5
1900.0	2000.0	1819.5
2000.0	2100.0	1918.5
2100.0	2200.0	2017.5
2200.0	2300.0	2116.5
2300.0	2400.0	2215.5
2400.0	2500.0	2314.5
2500.0		2413.5

Table A-12. Conversion Table for Item Recognition, Percent Correct

<u>Operational BAT Score</u>		Scaled BAT Score	<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than or Equal to	Less Than		Greater Than or Equal to	Less Than	
	50	1.63	19.00	19.50	20.29
.50	1.00	2.12	19.50	20.00	20.78
1.00	1.50	2.61	20.00	20.50	21.27
1.50	2.00	3.10	20.50	21.00	21.76
2.00	2.50	3.59	21.00	21.50	22.25
2.50	3.00	4.08	21.50	22.00	22.74
3.00	3.50	4.57	22.00	22.50	23.23
3.50	4.00	5.06	22.50	23.00	23.72
4.00	4.50	5.55	23.00	23.50	24.22
4.50	5.00	6.05	23.50	24.00	24.71
5.00	5.50	6.54	24.00	24.50	25.20
5.50	6.00	7.03	24.50	25.00	25.69
6.00	6.50	7.52	25.00	25.50	26.18
6.50	7.00	8.01	25.50	26.00	26.67
7.00	7.50	8.50	26.00	26.50	27.16
7.50	8.00	8.99	26.50	27.00	27.65
8.00	8.50	9.48	27.00	27.50	28.14
8.50	9.00	9.97	27.50	28.00	28.63
9.00	9.50	10.46	28.00	28.50	29.13
9.50	10.00	10.96	28.50	29.00	29.62
10.00	10.50	11.45	29.00	29.50	30.11
10.50	11.00	11.94	29.50	30.00	30.60
11.00	11.50	12.43	30.00	30.50	31.09
11.50	12.00	12.92	30.50	31.00	31.58
12.00	12.50	13.41	31.00	31.50	32.07
12.50	13.00	13.90	31.50	32.00	32.56
13.00	13.50	14.39	32.00	32.50	33.05
13.50	14.00	14.88	32.50	33.00	33.55
14.00	14.50	15.38	33.00	33.50	34.04
14.50	15.00	15.87	33.50	34.00	34.53
15.00	15.50	16.36	34.00	34.50	35.02
15.50	16.00	16.85	34.50	35.00	35.51
16.00	16.50	17.34	35.00	35.50	36.00
16.50	17.00	17.83	35.50	36.00	36.49
17.00	17.50	18.32	36.00	36.50	36.98
17.50	18.00	18.81	36.50	37.00	37.47
18.00	18.50	19.30	37.00	37.50	37.97
18.50	19.00	19.80	37.50	38.00	38.46

Table A-12 continued

<u>Operational BAT Score</u>		Scaled BAT Score	<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than or Equal to	Less Than		Greater Than or Equal to	Less Than	
38.00	38.50	38.95	57.50	58.00	58.10
38.50	39.00	39.44	58.00	58.50	58.59
39.00	39.50	39.93	58.50	59.00	59.08
39.50	40.00	40.42	59.00	59.50	59.57
40.00	40.50	40.91	59.50	60.00	60.06
40.50	41.00	41.40	60.00	60.50	60.55
41.00	41.50	41.89	60.50	61.00	61.05
41.50	42.00	42.38	61.00	61.50	61.54
42.00	42.50	42.88	61.50	62.00	62.03
42.50	43.00	43.37	62.00	62.50	62.52
43.00	43.50	43.86	62.50	63.00	63.01
43.50	44.00	44.35	63.00	63.50	63.50
44.00	44.50	44.84	63.50	64.00	63.99
44.50	45.00	45.33	64.00	64.50	64.48
45.00	45.50	45.82	64.50	65.00	64.97
45.50	46.00	46.31	65.00	65.50	65.47
46.00	46.50	46.80	65.50	66.00	65.96
46.50	47.00	47.30	66.00	66.50	66.45
47.00	47.50	47.79	66.50	67.00	66.94
47.50	48.00	48.28	67.00	67.50	67.43
48.00	48.50	48.77	67.50	68.00	67.92
48.50	49.00	49.26	68.00	68.50	68.41
49.00	49.50	49.75	68.50	69.00	68.90
49.50	50.00	50.24	69.00	69.50	69.39
50.00	50.50	50.73	69.50	70.00	69.88
50.50	51.00	51.22	70.00	70.50	70.38
51.00	51.50	51.72	70.50	71.00	70.87
51.50	52.00	52.21	71.00	71.50	71.36
52.00	52.50	52.70	71.50	72.00	71.85
52.50	53.00	53.19	72.00	72.50	72.34
53.00	53.50	53.68	72.50	73.00	72.83
53.50	54.00	54.17	73.00	73.50	73.32
54.00	54.50	54.66	73.50	74.00	73.81
54.50	55.00	55.15	74.00	74.50	74.30
55.00	55.50	55.64	74.50	75.00	74.80
55.50	56.00	56.13	75.00	75.50	75.29
56.00	56.50	56.63	75.50	76.00	75.78
56.50	57.00	57.12	76.00	76.50	76.27
57.00	57.50	57.61	76.50	77.00	76.76

Table A-12 continued

<u>Operational BAT Score</u>		Scaled BAT Score	<u>Operational Bat Score</u>		Scaled BAT Score
Greater Than or Equal to	Less Than		Greater Than or Equal to	Less Than	
77.00	77.50	77.25	96.50	97.00	96.40
77.50	78.00	77.74	97.00	97.50	96.89
78.00	78.50	78.23	97.50	98.00	97.38
78.50	79.00	78.72	98.00	98.50	97.88
79.00	79.50	79.22	98.50	99.00	98.37
79.50	80.00	79.71	99.00	99.50	98.86
80.00	80.50	80.20	99.50	100.00	99.35
80.50	81.00	80.69	100.00		99.84
81.00	81.50	81.18			
81.50	82.00	81.67			
82.00	82.50	82.16			
82.50	83.00	82.65			
83.00	83.50	83.14			
83.50	84.00	83.63			
84.00	84.50	84.13			
84.50	85.00	84.62			
85.00	85.50	85.11			
85.50	86.00	85.60			
86.00	86.50	86.09			
86.50	87.00	86.58			
87.00	87.50	87.07			
87.50	88.00	87.56			
88.00	88.50	88.05			
88.50	89.00	88.55			
89.00	89.50	89.04			
89.50	90.00	89.53			
90.00	90.50	90.02			
90.50	91.00	90.51			
91.00	91.50	91.00			
91.50	92.00	91.49			
92.00	92.50	91.98			
92.50	93.00	92.47			
93.00	93.50	92.97			
93.50	94.00	93.46			
94.00	94.50	93.95			
94.50	95.00	94.44			
95.00	95.50	94.93			
95.50	96.00	95.42			
96.00	96.50	95.91			

Table A-13. Conversion Table for Time Sharing, Difficulty Level

<u>Operational BAT Score</u>		Scaled BAT Score	<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than	Less Than		Greater Than	Less Than	
	1.00	10.99	38.00	39.00	46.48
1.00	2.00	11.92	39.00	40.00	47.41
2.00	3.00	12.86	40.00	41.00	48.34
3.00	4.00	13.79	41.00	42.00	49.28
4.00	5.00	14.72	42.00	43.00	50.21
5.00	6.00	15.66	43.00	44.00	51.15
6.00	7.00	16.59	44.00	45.00	52.08
7.00	8.00	17.53	45.00	46.00	53.01
8.00	9.00	18.46	46.00	47.00	53.95
9.00	10.00	19.39	47.00	48.00	54.88
10.00	11.00	20.33	48.00	49.00	55.81
11.00	12.00	21.26	49.00	50.00	56.75
12.00	13.00	22.20	50.00	51.00	57.68
13.00	14.00	23.13	51.00	52.00	58.62
14.00	15.00	24.06	52.00	53.00	59.55
15.00	16.00	25.00	53.00	54.00	60.48
16.00	17.00	25.93	54.00	55.00	61.42
17.00	18.00	26.86	55.00	56.00	62.35
18.00	19.00	27.80	56.00	57.00	63.29
19.00	20.00	28.73	57.00	58.00	64.22
20.00	21.00	29.67	58.00	59.00	65.15
21.00	22.00	30.60	59.00	60.00	66.09
22.00	23.00	31.53	60.00	61.00	67.02
23.00	24.00	32.47	61.00	62.00	67.95
24.00	25.00	33.40	62.00	63.00	68.89
25.00	26.00	34.34	63.00	64.00	69.82
26.00	27.00	35.27	64.00	65.00	70.76
27.00	28.00	36.20	65.00	66.00	71.69
28.00	29.00	37.14	66.00	67.00	72.62
29.00	30.00	38.07	67.00	68.00	73.56
30.00	31.00	39.00	68.00	69.00	74.49
31.00	32.00	39.94	69.00	70.00	75.43
32.00	33.00	40.87	70.00	71.00	76.36
33.00	34.00	41.81	71.00	72.00	77.29
34.00	35.00	42.74	72.00	73.00	78.23
35.00	36.00	43.67	73.00	74.00	79.16
36.00	37.00	44.61	74.00	75.00	80.09
37.00	38.00	45.54	75.00	76.00	81.03

Table A-13 continued

<u>Operational BAT Score</u>		Scaled	<u>Operational BAT Score</u>		Scaled
Greater Than		BAT	Greater Than		BAT
or Equal to	Less Than	Score	or Equal to	Less Than	Score
76.00	77.00	81.96	115.00	116.00	118.38
77.00	78.00	82.90	116.00	117.00	119.32
78.00	79.00	83.83	117.00	118.00	120.25
79.00	80.00	84.76	118.00	119.00	121.19
80.00	81.00	85.70	119.00	120.00	122.12
81.00	82.00	86.63	120.00	121.00	123.05
82.00	83.00	87.57	121.00	122.00	123.99
83.00	84.00	88.50	122.00	123.00	124.92
84.00	85.00	89.43	123.00	124.00	125.85
85.00	86.00	90.37	124.00	125.00	126.79
86.00	87.00	91.30	125.00	126.00	127.72
87.00	88.00	92.24	126.00	127.00	128.66
88.00	89.00	93.17	127.00	128.00	129.59
89.00	90.00	94.10	128.00	129.00	130.52
90.00	91.00	95.04	129.00	130.00	131.46
91.00	92.00	95.97	130.00	131.00	132.39
92.00	93.00	96.90	131.00	132.00	133.33
93.00	94.00	97.84	132.00	133.00	134.26
94.00	95.00	98.77	133.00	134.00	135.19
95.00	96.00	99.71	134.00	135.00	136.13
96.00	97.00	100.64	135.00	136.00	137.06
97.00	98.00	101.57	136.00	137.00	137.99
98.00	99.00	102.51	137.00	138.00	138.93
99.00	100.00	103.44	138.00	139.00	139.86
100.00	101.00	104.38	139.00	140.00	140.80
101.00	102.00	105.31	140.00	141.00	141.73
102.00	103.00	106.24	141.00	142.00	142.66
103.00	104.00	107.18	142.00	143.00	143.60
104.00	105.00	108.11	143.00	144.00	144.53
105.00	106.00	109.04	144.00	145.00	145.47
106.00	107.00	109.98	145.00	146.00	146.40
107.00	108.00	110.91	146.00	147.00	147.33
108.00	109.00	111.85	147.00	148.00	148.27
109.00	110.00	112.78	148.00	149.00	149.20
110.00	111.00	113.71	149.00	150.00	150.13
111.00	112.00	114.65	150.00	151.00	151.07
112.00	113.00	115.58	151.00	152.00	152.00
113.00	114.00	116.52	152.00	153.00	152.94
114.00	115.00	117.45	153.00	154.00	153.87

Table A-13 continued.

<u>Operational BAT Score</u>		Scaled BAT Score	<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than or Equal to	Less Than		Greater Than or Equal to	Less Than	
154.00	155.00	154.80	193.00	194.00	191.22
155.00	156.00	155.74	194.00	195.00	192.16
156.00	157.00	156.67	195.00	196.00	193.09
157.00	158.00	157.61	196.00	197.00	194.03
158.00	159.00	158.54	197.00	198.00	194.96
159.00	160.00	159.47	198.00	199.00	195.89
160.00	161.00	160.41	199.00	200.00	196.83
161.00	162.00	161.34	200.00	201.00	197.76
162.00	163.00	162.28	201.00	202.00	198.70
163.00	164.00	163.21	202.00	203.00	199.63
164.00	165.00	164.14	203.00	204.00	200.56
165.00	166.00	165.08	204.00	205.00	201.50
166.00	167.00	166.01	205.00	206.00	202.43
167.00	168.00	166.94	206.00	207.00	203.37
168.00	169.00	167.88	207.00	208.00	204.30
169.00	170.00	168.81	208.00	209.00	205.23
170.00	171.00	169.75	209.00	210.00	206.17
171.00	172.00	170.68	210.00	211.00	207.10
172.00	173.00	171.61	211.00	212.00	208.03
173.00	174.00	172.55	212.00	213.00	208.97
174.00	175.00	173.48	213.00	214.00	209.90
175.00	176.00	174.42	214.00	215.00	210.84
176.00	177.00	175.35	215.00	216.00	211.77
177.00	178.00	176.28	216.00	217.00	212.70
178.00	179.00	177.22	217.00	218.00	213.64
179.00	180.00	178.15	218.00	219.00	214.57
180.00	181.00	179.08	219.00	220.00	215.51
181.00	182.00	180.02	220.00	221.00	216.44
182.00	183.00	180.95	221.00	222.00	217.37
183.00	184.00	181.89	222.00	223.00	218.31
184.00	185.00	182.82	223.00	224.00	219.24
185.00	186.00	183.75	224.00	225.00	220.17
186.00	187.00	184.69	225.00	226.00	221.11
187.00	188.00	185.62	226.00	227.00	222.04
188.00	189.00	186.56	227.00	228.00	222.98
189.00	190.00	187.49	228.00	229.00	223.91
190.00	191.00	188.42	229.00	230.00	224.84
191.00	192.00	189.36	230.00	231.00	225.78
192.00	193.00	190.29	231.00	232.00	226.71

Table A-13 continued

<u>Operational BAT Score</u>		Scaled BAT Score	<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than or Equal to	Less Than		Greater Than or Equal to	Less Than	
232.00	233.00	227.65	271.00	272.00	264.07
233.00	234.00	228.58	272.00	273.00	265.00
234.00	235.00	229.51	273.00	274.00	265.93
235.00	236.00	230.45	274.00	275.00	266.87
236.00	237.00	231.38	275.00	276.00	267.80
237.00	238.00	232.31	276.00	277.00	268.74
238.00	239.00	233.25	277.00	278.00	269.67
239.00	240.00	234.18	278.00	279.00	270.60
240.00	241.00	235.12	279.00	280.00	271.54
241.00	242.00	236.05	280.00	281.00	272.47
242.00	243.00	236.98	281.00	282.00	273.41
243.00	244.00	237.92	282.00	283.00	274.34
244.00	245.00	238.85	283.00	284.00	275.27
245.00	246.00	239.79	284.00	285.00	276.21
246.00	247.00	240.72	285.00	286.00	277.14
247.00	248.00	241.65	286.00	287.00	278.07
248.00	249.00	242.59	287.00	288.00	279.01
249.00	250.00	243.52	288.00	289.00	279.94
250.00	251.00	244.46	289.00	290.00	280.88
251.00	252.00	245.39	290.00	291.00	281.81
252.00	253.00	246.32	291.00	292.00	282.74
253.00	254.00	247.26	292.00	293.00	283.68
254.00	255.00	248.19	293.00	294.00	284.61
255.00	256.00	249.12	294.00	295.00	285.55
256.00	257.00	250.06	295.00	296.00	286.48
257.00	258.00	250.99	296.00	297.00	287.41
258.00	259.00	251.93	297.00	298.00	288.35
259.00	260.00	252.86	298.00	299.00	289.28
260.00	261.00	253.79	299.00	300.00	290.21
261.00	262.00	254.73	300.00	301.00	291.15
262.00	263.00	255.66	301.00	302.00	292.08
263.00	264.00	256.60	302.00	303.00	293.02
264.00	265.00	257.53	303.00	304.00	293.95
265.00	266.00	258.46	304.00	305.00	294.88
266.00	267.00	259.40	305.00	306.00	295.82
267.00	268.00	260.33	306.00	307.00	296.75
268.00	269.00	261.26	307.00	308.00	297.69
269.00	270.00	262.20	308.00	309.00	298.62
270.00	271.00	263.13	309.00	310.00	299.55

Table A-13 continued

<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than		
or Equal to	Less Than	
310.00	311.00	300.49
311.00	312.00	301.42
312.00	313.00	302.35
313.00	314.00	303.29
314.00	315.00	304.22
315.00	316.00	305.16
316.00	317.00	306.09
317.00	318.00	307.02
318.00	319.00	307.96
319.00	320.00	308.89
320.00		309.83

Table A-14. Conversion Table for Time Sharing, Average Response Time

<u>Operational BAT Score</u>		<u>Scaled BAT Score</u>	<u>Operational BAT Score</u>		<u>Scaled BAT Score</u>
<u>Greater Than or Equal to</u>	<u>Less Than</u>		<u>Greater Than or Equal to</u>	<u>Less Than</u>	
	100.0	154.8	3800.0	3900.0	3430.4
100.0	200.0	241.0	3900.0	4000.0	3516.6
200.0	300.0	327.2	4000.0		3602.6
300.0	400.0	413.4			
400.0	500.0	499.6			
500.0	600.0	585.8			
600.0	700.0	672.0			
700.0	800.0	758.2			
800.0	900.0	844.4			
900.0	1000.0	930.6			
1000.0	1100.0	1016.8			
1100.0	1200.0	1103.0			
1200.0	1300.0	1189.2			
1300.0	1400.0	1275.4			
1400.0	1500.0	1361.6			
1500.0	1600.0	1447.8			
1600.0	1700.0	1534.0			
1700.0	1800.0	1620.2			
1800.0	1900.0	1706.4			
1900.0	2000.0	1792.6			
2000.0	2100.0	1878.8			
2100.0	2200.0	1965.0			
2200.0	2300.0	2051.2			
2300.0	2400.0	2137.4			
2400.0	2500.0	2223.6			
2500.0	2600.0	2309.8			
2600.0	2700.0	2396.0			
2700.0	2800.0	2482.2			
2800.0	2900.0	2568.4			
2900.0	3000.0	2654.6			
3000.0	3100.0	2740.8			
3100.0	3200.0	2827.0			
3200.0	3300.0	2913.2			
3300.0	3400.0	2999.4			
3400.0	3500.0	3085.6			
3500.0	3600.0	3171.8			
3600.0	3700.0	3258.0			
3700.0	3800.0	3344.2			

Table A-15. Conversion Table for Self-Crediting Word Knowledge, Average Response Time

<u>Operational BAT Score</u>	<u>Scaled BAT Score</u>	<u>Operational BAT Score</u>	<u>Scaled BAT Score</u>
<u>Greater Than or Equal to</u>	<u>Less Than</u>	<u>Greater Than or Equal to</u>	<u>Less Than</u>
350.0	350.0	.0	2200.0
350.0	400.0	32.2	2250.0
400.0	450.0	84.0	2300.0
450.0	500.0	135.8	2350.0
500.0	550.0	187.6	2400.0
550.0	600.0	239.5	2450.0
600.0	650.0	291.3	2500.0
650.0	700.0	343.1	2550.0
700.0	750.0	394.9	2600.0
750.0	800.0	446.7	2650.0
800.0	850.0	498.6	2700.0
850.0	900.0	550.4	2750.0
900.0	950.0	602.0	2800.0
950.0	1000.0	654.0	2850.0
1000.0	1050.0	705.8	2900.0
1050.0	1100.0	757.7	2950.0
1100.0	1150.0	809.5	3000.0
1150.0	1200.0	861.3	3050.0
1200.0	1250.0	913.1	3100.0
1250.0	1300.0	964.9	3150.0
1300.0	1350.0	1016.8	3200.0
1350.0	1400.0	1068.6	3250.0
1400.0	1450.0	1120.4	3300.0
1450.0	1500.0	1172.2	3350.0
1500.0	1550.0	1224.0	3400.0
1550.0	1600.0	1275.9	3450.0
1600.0	1650.0	1327.7	3500.0
1650.0	1700.0	1379.5	3550.0
1700.0	1750.0	1431.3	3600.0
1750.0	1800.0	1483.1	3650.0
1800.0	1850.0	1534.9	3700.0
1850.0	1900.0	1586.8	3750.0
1900.0	1950.0	1638.6	3800.0
1950.0	2000.0	1690.4	3850.0
2000.0	2050.0	1742.2	3900.0
2050.0	2100.0	1794.0	3950.0
2100.0	2150.0	1845.9	4000.0
2150.0	2200.0	1897.7	4050.0
			4100.0
			3866.8

Table A-15 continued

<u>Operational BAT Score</u> Greater Than or Equal to	<u>Operational BAT Score</u> Less Than	Scaled BAT Score	<u>Operational BAT Score</u> Greater Than or Equal to	<u>Operational BAT Score</u> Less Than	Scaled BAT Score
4100.0	4150.0	3918.7	6050.0	6100.0	5939.6
4150.0	4200.0	3970.5	6100.0	6150.0	5991.4
4200.0	4250.0	4022.3	6150.0	6200.0	6043.3
4250.0	4300.0	4074.1	6200.0	6250.0	6095.1
4300.0	4250.0	4125.9	6250.0	6300.0	6146.9
4350.0	4400.0	4177.8	6300.0	6350.0	6198.7
4400.0	4450.0	4229.6	6350.0	6400.0	6250.5
4450.0	4500.0	4281.4	6400.0	6450.0	6302.4
4500.0	4550.0	4333.2	6450.0	6500.0	6354.2
4550.0	4600.0	4385.0	6500.0	6550.0	6406.0
4600.0	4650.0	4436.9	6550.0	7000.0	6872.4
4650.0	4700.0	4488.7	7000.0	7050.0	6924.2
4700.0	4750.0	4540.5	7050.0	7100.0	6976.0
4750.0	4800.0	4592.3	7100.0	7150.0	7027.8
4800.0	4850.0	4644.1	7150.0	7200.0	7079.7
4850.0	4900.0	4696.0	7200.0	7250.0	7131.5
4900.0	4950.0	4747.8	7250.0	7300.0	7183.3
4950.0	5000.0	4799.6	7300.0	7350.0	7235.1
5000.0	5050.0	4851.4	7350.0	7400.0	7286.9
5050.0	5100.0	4903.2	7400.0	7450.0	7338.8
5100.0	5150.0	4955.1	7450.0	7500.0	7390.6
5150.0	5200.0	5006.9	7500.0	7550.0	7442.4
5200.0	5250.0	5058.7	7550.0	7600.0	7494.2
5250.0	5300.0	5110.5	7600.0	7650.0	7546.0
5300.0	5350.0	5162.3	7650.0	7700.0	7597.9
5350.0	5400.0	5214.2	7700.0	7750.0	7649.7
5400.0	5450.0	5266.0	7750.0	7800.0	7701.5
5450.0	5500.0	5317.8	7800.0	7850.0	7753.3
5500.0	5550.0	5369.6	7850.0	7900.0	7960.6
5550.0	5600.0	5421.4	7900.0	7950.0	7805.1
5600.0	5650.0	5473.2	7950.0	8000.0	7908.8
5650.0	5700.0	5525.1	8000.0	8050.0	7960.6
5700.0	5750.0	5576.9	8050.0	8100.0	8012.4
5750.0	5800.0	5628.7	8100.0	8150.0	8064.2
5800.0	5850.0	5680.5	8150.0	8200.0	8116.1
5850.0	5900.0	5732.3	8200.0	8250.0	8167.9
5900.0	5950.0	5784.2	8250.0	8300.0	8219.7
5950.0	6000.0	5836.0	8300.0	8350.0	8271.5
6000.0	6050.0	5887.8	8350.0	8400.0	8323.3

Table A-15 continued

<u>Operational BAT Score</u>	<u>Scaled BAT Score</u>	<u>Operational BAT Score</u>	<u>Scaled BAT Score</u>
<u>Greater Than or Equal to</u>	<u>Less Than</u>	<u>Greater Than or Equal to</u>	<u>Less Than</u>
8400.0	8450.0	8375.2	10350.0
8450.0	8500.0	8427.0	10400.0
8500.0	8550.0	8478.8	10450.0
8550.0	8600.0	8530.6	10500.0
8600.0	8650.0	8582.4	10550.0
8650.0	8700.0	8634.3	10600.0
8700.0	8750.0	8686.1	10650.0
8750.0	8800.0	8737.9	10700.0
8800.0	8850.0	8789.7	10750.0
8850.0	8900.0	8841.5	10800.0
8900.0	8950.0	8893.4	10850.0
8950.0	9000.0	8945.2	10900.0
9000.0	9050.0	8997.0	10950.0
9050.0	9100.0	9048.8	11000.0
9100.0	9150.0	9100.6	11050.0
9150.0	9200.0	9152.5	11100.0
9200.0	9250.0	9204.3	11150.0
9250.0	9300.0	9256.1	11200.0
9300.0	9350.0	9307.9	11250.0
9350.0	9400.0	9359.7	11300.0
9400.0	9450.0	9411.5	11350.0
9450.0	9500.0	9463.4	11400.0
9500.0	9550.0	9515.2	11500.0
9550.0	9600.0	9567.0	11550.0
9600.0	9650.0	9618.8	11600.0
9650.0	9700.0	9670.6	11650.0
9700.0	9750.0	9722.5	11700.0
9750.0	9800.0	9774.3	11750.0
9800.0	9850.0	9774.3	11800.0
9850.0	9900.0	9877.9	11850.0
9900.0	9950.0	9929.7	11900.0
9950.0	10000.0	9981.6	11950.0
10000.0	10050.0	10033.4	12000.0
10050.0	10100.0	10085.2	12050.0
10100.0	10150.0	10137.0	12100.0
10150.0	10200.0	10188.8	12150.0
10200.0	10250.0	10240.7	12200.0
10250.0	10300.0	10292.5	12250.0
10300.0	10350.0	10344.3	12300.0

Table A-15 continued

<u>Operational BAT Score</u>		<u>Scaled BAT Score</u>	<u>Operational BAT Score</u>		<u>Scaled BAT Score</u>
<u>Greater Than or Equal to</u>	<u>Less Than</u>		<u>Greater Than or Equal to</u>	<u>Less Than</u>	
12350.0	12400.0	12468.9	14300.0	14350.0	14489.9
12400.0	12450.0	12520.7	14350.0	14400.0	14541.7
12450.0	12500.0	12572.6	14400.0	14450.0	14593.5
12500.0	12550.0	12624.4	14450.0	14500.0	14645.3
12550.0	12600.0	12676.2	14500.0	14550.0	14697.2
12600.0	12650.0	12728.0	14550.0	14600.0	14749.0
12650.0	12700.0	12779.8	14600.0	14650.0	14800.8
12700.0	12750.0	12831.7	14650.0	14700.0	14852.6
12750.0	12800.0	12883.5	14700.0	14750.0	14904.4
12800.0	12850.0	12935.3	14750.0	14800.0	14956.3
12850.0	12900.0	12987.1	14800.0	14850.0	15008.1
12900.0	12950.0	13038.9	14850.0	14900.0	15059.9
12950.0	13000.0	13090.8	14900.0	14950.0	15111.7
13000.0	13050.0	13453.5	14950.0	15000.0	15163.5
13050.0	13100.0	13194.4	15000.0	15050.0	15215.4
13100.0	13150.0	13246.2	15050.0	15100.0	15267.2
13150.0	13200.0	13298.0	15100.0	15150.0	15319.0
13200.0	13250.0	13349.8	15150.0	15200.0	15370.8
13250.0	13300.0	13401.7	15200.0	15250.0	15422.6
13300.0	13350.0	13453.5	15250.0	15300.0	15474.5
13350.0	13400.0	13505.3	15300.0	15350.0	15526.3
13400.0	13450.0	13557.1	15350.0	15400.0	15578.1
13450.0	13500.0	13608.9	15400.0	15450.0	15629.9
13500.0	13550.0	13660.8	15450.0	15500.0	15681.7
13550.0	13600.0	13712.6	15500.0	15550.0	15733.6
13600.0	13650.0	13764.4	15550.0	15600.0	15785.4
13650.0	13700.0	13816.2	15600.0	15650.0	15837.2
13700.0	13750.0	13868.0	15650.0	15700.0	15889.0
13750.0	13800.0	13919.9	15700.0	15750.0	15940.0
13800.0	13850.0	13971.7	15750.0	15800.0	15992.7
13850.0	13900.0	14023.5	15800.0	15850.0	16044.5
13900.0	13950.0	14075.3	15850.0	15900.0	16096.3
13950.0	14000.0	14541.7	15900.0	15950.0	16148.1
14000.0	14050.0	14179.0	15950.0	16000.0	16199.9
14050.0	14100.0	14230.8	16000.0	16050.0	16251.8
14100.0	14150.0	14282.6	16050.0	16100.0	16303.6
14150.0	14200.0	14334.4	16100.0	16150.0	16355.4
14200.0	14250.0	14386.2	16150.0	16200.0	16407.2
14250.0	14300.0	14438.1	16200.0	16250.0	16459.0

Table A-15 continued

<u>Operational Bat Score</u>		Scaled
Greater Than		BAT
or Equal to	Less Than	Score
16250.0	16300.0	16510.9
16300.0	16350.0	16562.7
16350.0	16400.0	16614.5
16400.0	16450.0	16666.3
16450.0	16500.0	16718.1
16500.0	16550.0	16770.0
16550.0	16600.0	16821.8
16600.0	16650.0	16873.6
16650.0	16700.0	16925.4
16700.0	16750.0	16977.2
16750.0	16800.0	17029.0
16800.0	16850.0	17080.9
16850.0	16900.0	17132.7
16900.0	16950.0	17184.5
16950.0	17000.0	17236.3
17000.0		17288.1

Table A-16. Conversion Table for Self-Crediting Word Knowledge, Percent Correct

<u>Operational BAT Score</u>		Scaled BAT Score	<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than or Equal to	Less Than		Greater Than or Equal to	Less Than	
	.50	.90	19.00	19.50	19.61
.50	1.00	1.39	19.50	20.00	20.10
1.00	1.50	1.89	20.00	20.50	20.59
1.50	2.00	2.38	20.50	21.00	21.09
2.00	2.50	2.87	21.00	21.50	21.58
2.50	3.00	3.36	21.50	22.00	22.07
3.00	3.50	3.86	22.00	22.50	22.56
3.50	4.00	4.35	22.50	23.00	23.06
4.00	4.50	4.84	23.00	23.50	23.55
4.50	5.00	5.33	23.50	24.00	24.04
5.00	5.50	5.82	24.00	24.50	24.53
5.50	6.00	6.32	24.50	25.00	25.02
6.00	6.50	6.81	25.00	25.50	25.52
6.50	7.00	7.30	25.50	26.00	26.01
7.00	7.50	7.79	26.00	26.50	26.50
7.50	8.00	8.29	26.50	27.00	26.99
8.00	8.50	8.78	27.00	27.50	27.49
8.50	9.00	9.27	27.50	28.00	27.98
9.00	9.50	9.76	28.00	28.50	28.47
9.50	10.00	10.26	28.50	29.00	28.96
10.00	10.50	10.75	29.00	29.50	29.46
10.50	11.00	11.24	29.50	30.00	29.95
11.00	11.50	11.73	30.00	30.50	30.44
11.50	12.00	12.22	30.50	31.00	30.93
12.00	12.50	12.72	31.00	31.50	31.43
12.50	13.00	13.21	31.50	32.00	31.92
13.00	13.50	13.70	32.00	32.50	32.41
13.50	14.00	14.19	32.50	33.00	32.90
14.00	14.50	14.69	33.00	33.50	33.39
14.50	15.00	15.18	33.50	34.00	33.89
15.00	15.50	15.67	34.00	34.50	34.38
15.50	16.00	16.16	34.50	35.00	34.87
16.00	16.50	16.66	35.00	35.50	35.36
16.50	17.00	17.15	35.50	36.00	35.86
17.00	17.50	17.64	36.00	36.50	36.35
17.50	18.00	18.13	36.50	37.00	36.84
18.00	18.50	18.62	37.00	37.50	37.33
18.50	19.00	19.12	37.50	38.00	37.83

Table A-16 continued

<u>Operational BAT Score</u> Greater Than or Equal to	<u>Operational BAT Score</u> Less Than	Scaled BAT Score	<u>Operational BAT Score</u> Greater Than or Equal to	<u>Operational BAT Score</u> Less Than	Scaled BAT Score
38.00	38.50	38.32	57.50	58.00	57.52
38.50	39.00	38.81	58.00	58.50	58.01
39.00	39.50	39.30	58.50	59.00	58.50
39.50	40.00	39.79	59.00	59.50	58.99
40.00	40.50	40.29	59.50	60.00	59.49
40.50	41.00	40.78	60.00	60.50	59.98
41.00	41.50	41.27	60.50	61.00	60.47
41.50	42.00	41.76	61.00	61.50	60.96
42.00	42.50	42.26	61.50	62.00	61.46
42.50	43.00	42.75	62.00	62.50	61.95
43.00	43.50	43.24	62.50	63.00	62.44
43.50	44.00	43.73	63.00	63.50	62.93
44.00	44.50	44.23	63.50	64.00	63.43
44.50	45.00	44.72	64.00	64.50	63.92
45.00	45.50	45.21	64.50	65.00	64.41
45.50	46.00	45.70	65.00	65.50	64.90
46.00	46.50	46.19	65.50	66.00	65.39
46.50	47.00	46.69	66.00	66.50	65.89
47.00	47.50	47.18	66.50	67.00	66.38
47.50	48.00	47.67	67.00	67.50	66.87
48.00	48.50	48.16	67.50	68.00	67.36
48.50	49.00	48.66	68.00	68.50	67.86
49.00	49.50	49.15	68.50	69.00	68.35
49.50	50.00	49.64	69.00	69.50	68.84
50.00	50.50	50.13	69.50	70.00	69.33
50.50	51.00	50.63	70.00	70.50	69.83
51.00	51.50	51.12	70.50	71.00	70.32
51.50	52.00	51.61	71.00	71.50	70.81
52.00	52.50	52.10	71.50	72.00	71.30
52.50	53.00	52.59	72.00	72.50	71.80
53.00	53.50	53.09	72.50	73.00	72.29
53.50	54.00	53.58	73.00	73.50	72.78
54.00	54.50	54.07	73.50	74.00	73.27
54.50	55.00	54.56	74.00	74.50	73.76
55.00	55.50	55.06	74.50	75.00	74.26
55.50	56.00	55.55	75.00	75.50	74.75
56.00	56.50	56.04	75.50	76.00	75.24
56.50	57.00	56.53	76.00	76.50	75.73
57.00	57.50	57.03	76.50	77.00	76.23

Table A-16 continued

<u>Operational BAT Score</u>		Scaled BAT Score	<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than or Equal to	Less Than		Greater Than or Equal to	Less Than	
77.00	77.50	76.72	96.00	96.50	95.43
77.50	78.00	77.21	96.50	97.00	95.92
78.00	78.50	77.70	97.00	97.50	96.41
78.50	79.00	78.20	97.50	98.00	96.90
79.00	79.50	78.69	98.00	98.50	97.40
79.50	80.00	79.18	98.50	99.00	97.89
80.00	80.50	79.67	99.00	99.50	98.38
80.50	81.00	80.16	99.50	100.00	98.87
81.00	81.50	80.66	100.00		99.36
81.50	82.00	81.15			
82.00	82.50	81.64			
82.50	83.00	82.13			
83.00	83.50	82.63			
83.50	84.00	83.12			
84.00	84.50	83.61			
84.50	85.00	84.10			
85.00	85.50	84.60			
85.50	86.00	85.09			
86.00	86.50	85.58			
86.50	87.00	86.07			
87.00	87.50	86.56			
87.50	88.00	87.06			
88.00	88.50	87.55			
88.50	89.00	88.04			
89.00	89.50	88.53			
89.50	90.00	89.03			
90.00	90.50	89.52			
90.50	91.00	90.01			
91.00	91.50	90.50			
91.50	92.00	91.00			
92.00	92.50	91.49			
92.50	93.00	91.98			
93.00	93.50	92.47			
93.50	94.00	92.96			
94.00	94.50	93.46			
94.50	95.00	93.95			
95.00	95.50	94.44			
95.50	96.00	94.93			

Table A-17. Conversion Table for Self-Crediting Word-Knowledge, Bet

<u>Operational BAT Score</u>		Scaled BAT Score	<u>Operational BAT Score</u>		Scaled BAT Score
<u>Greater Than</u> <u>or Equal to</u>	<u>Less Than</u>		<u>Greater Than</u> <u>or Equal to</u>	<u>Less Than</u>	
	.50	.55	19.00	19.50	19.47
.50	1.00	1.05	19.50	20.00	19.97
1.00	1.50	1.55	20.00	20.50	20.47
1.50	2.00	2.05	20.50	21.00	20.97
2.00	2.50	2.55	21.00	21.50	21.46
2.50	3.00	3.04	21.50	22.00	21.96
3.00	3.50	3.54	22.00	22.50	22.46
3.50	4.00	4.04	22.50	23.00	22.96
4.00	4.50	4.54	23.00	23.50	23.45
4.50	5.00	5.04	23.50	24.00	23.95
5.00	5.50	5.53	24.00	24.50	24.45
5.50	6.00	6.03	24.50	25.00	24.95
6.00	6.50	6.53	25.00	25.50	25.45
6.50	7.00	7.03	25.50	26.00	25.94
7.00	7.50	7.52	26.00	26.50	26.44
7.50	8.00	8.02	26.50	27.00	26.94
8.00	8.50	8.52	27.00	27.50	27.44
8.50	9.00	9.02	27.50	28.00	27.94
9.00	9.50	9.52	28.00	28.50	28.43
9.50	10.00	10.01	28.50	29.00	28.93
10.00	10.50	10.51	29.00	29.50	29.43
10.50	11.00	11.01	29.50	30.00	29.93
11.00	11.50	11.51	30.00	30.50	30.42
11.50	12.00	12.00	30.50	31.00	30.92
12.00	12.50	12.50	31.00	31.50	31.42
12.50	13.00	13.00	31.50	32.00	31.92
13.00	13.50	13.50	32.00	32.50	32.42
13.50	14.00	14.00	32.50	33.00	32.91
14.00	14.50	14.49	33.00	33.50	33.41
14.50	15.00	14.99	33.50	34.00	33.91
15.00	15.50	15.49	34.00	34.50	34.41
15.50	16.00	15.99	34.50	35.00	34.90
16.00	16.50	16.49	35.00	35.50	35.40
16.50	17.00	16.98	35.50	36.00	35.90
17.00	17.50	17.48	36.00	36.50	36.40
17.50	18.00	17.98	36.50	37.00	36.90
18.00	18.50	18.48	37.00	37.50	37.39
18.50	19.00	18.97			

Table A-17 continued

<u>Operational BAT Score</u>		Scaled	<u>Operational BAT Score</u>		Scaled
Greater Than		BAT	Greater Than		BAT
or Equal to	Less Than	Score	or Equal to	Less Than	Score
37.50	38.00	37.89	57.00	57.50	57.31
38.00	38.50	38.39	57.50	58.00	57.81
38.50	39.00	38.89	58.00	58.50	58.30
39.00	39.50	39.39	58.50	59.00	58.80
39.50	40.00	39.88	59.00	59.50	59.30
40.00	40.50	40.38	59.50	60.00	59.80
40.50	41.00	40.88	60.00	60.50	60.29
41.00	41.50	41.38	60.50	61.00	60.79
41.50	42.00	41.87	61.00	61.50	61.29
42.00	42.50	42.37	61.50	62.00	61.79
42.50	43.00	42.87	62.00	62.50	62.29
43.00	43.50	43.37	62.50	63.00	62.78
43.50	44.00	43.87	63.00	63.50	63.28
44.00	44.50	44.36	63.50	64.00	63.78
44.50	45.00	44.86	64.00	64.50	64.28
45.00	45.50	45.36	64.50	65.00	64.77
45.50	46.00	45.86	65.00	65.50	65.27
46.00	46.50	46.35	65.50	66.00	65.77
46.50	47.00	46.85	66.00	66.50	66.27
47.00	47.50	47.35	66.50	67.00	66.77
47.50	48.00	47.85	67.00	67.50	67.26
48.00	48.50	48.35	67.50	68.00	67.76
48.50	49.00	48.84	68.00	68.50	68.26
49.00	49.50	49.34	68.50	69.00	68.76
49.50	50.00	49.84	69.00	69.50	69.26
50.00	50.50	50.34	69.50	70.00	69.75
50.50	51.00	50.84	70.00	70.50	70.25
51.00	51.50	51.33	70.50	71.00	70.75
51.50	52.00	51.83	71.00	71.50	71.25
52.00	52.50	52.33	71.50	72.00	71.74
52.50	53.00	52.83	72.00	72.50	72.24
53.00	53.50	53.32	72.50	73.00	72.74
53.50	54.00	53.82	73.00	73.50	73.24
54.00	54.50	54.32	73.50	74.00	73.74
54.50	55.00	54.82	74.00	74.50	74.23
55.00	55.50	55.32	74.50	75.00	74.73
55.50	56.00	55.81	75.00	75.50	75.23
56.00	56.50	56.31	75.50	76.00	75.73
56.50	57.00	56.81	76.00	76.50	76.22

Table A-17 continued

<u>Operational BAT Score</u>		<u>Scaled BAT Score</u>	<u>Operational BAT Score</u>		<u>Scaled BAT Score</u>
<u>Greater Than or Equal to</u>	<u>Less Than</u>		<u>Greater Than or Equal to</u>	<u>Less Than</u>	
76.50	77.00	76.72	96.00	96.50	96.14
77.00	77.50	77.22	96.50	97.00	96.64
77.50	78.00	77.72	97.00	97.50	97.13
78.00	78.50	78.22	97.50	98.00	97.63
78.50	79.00	78.71	98.00	98.50	98.13
79.00	79.50	79.21	98.50	99.00	98.63
79.50	80.00	79.71	99.00	99.50	99.12
80.00	80.50	80.21	99.50	100.00	99.62
80.50	81.00	80.71	100.00		100.12
81.00	81.50	81.20			
81.50	82.00	81.70			
82.00	82.50	82.20			
82.50	83.00	82.70			
83.00	83.50	83.19			
83.50	84.00	83.69			
84.00	84.50	84.19			
84.50	85.00	84.69			
85.00	85.50	85.19			
85.50	86.00	85.68			
86.00	86.50	86.18			
86.50	87.00	86.68			
87.00	87.50	87.18			
87.50	88.00	87.67			
88.00	88.50	88.17			
88.50	89.00	88.67			
89.00	89.50	89.17			
89.50	90.00	89.67			
90.00	90.50	90.16			
90.50	91.00	90.66			
91.00	91.50	91.16			
91.50	92.00	91.66			
92.00	92.50	92.16			
92.50	93.00	92.65			
93.00	93.50	93.15			
93.50	94.00	93.65			
94.00	94.50	94.15			
94.50	95.00	94.64			
95.00	95.50	95.14			
95.50	96.00	95.64			

Table A-18. Conversion Table for Activities Interest Inventory, Average Response Time

<u>Operational BAT Score</u>	<u>Scaled BAT Score</u>	<u>Operational BAT Score</u>	<u>Scaled BAT Score</u>
<u>Greater Than or Equal to</u>	<u>Less Than</u>	<u>Greater Than or Equal to</u>	<u>Less Than</u>
	1100.0	1208.2	4800.0
1100.0	1200.0	1278.0	4900.0
1200.0	1300.0	1349.0	5000.0
1300.0	1400.0	1421.0	5100.0
1400.0	1500.0	1494.2	5200.0
1500.0	1600.0	1568.5	5300.0
1600.0	1700.0	1643.9	5400.0
1700.0	1800.0	1720.4	5500.0
1800.0	1900.0	1798.0	5600.0
1900.0	2000.0	1876.7	5700.0
2000.0	2100.0	1956.6	5800.0
2100.0	2200.0	2037.5	5900.0
2200.0	2300.0	2119.6	6000.0
2300.0	2400.0	2202.8	6100.0
2400.0	2500.0	2287.1	6200.0
2500.0	2600.0	2372.5	6300.0
2600.0	2700.0	2459.0	6400.0
2700.0	2800.0	2546.6	6500.0
2800.0	2900.0	2635.4	6600.0
2900.0	3000.0	2725.2	6700.0
3000.0	3100.0	2816.2	6800.0
3100.0	3200.0	2908.3	6900.0
3200.0	3300.0	3001.5	7000.0
3300.0	3400.0	3095.8	7100.0
3400.0	3500.0	3191.2	7200.0
3500.0	3600.0	3287.7	7300.0
3600.0	3700.0	3385.3	7400.0
3700.0	3800.0	3484.1	7500.0
3800.0	3900.0	3583.9	7600.0
3900.0	4000.0	3684.9	7700.0
4000.0	4100.0	3787.0	7800.0
4100.0	4200.0	3890.2	7900.0
4200.0	4300.0	3994.5	8000.0
4300.0	4400.0	4099.9	8100.0
4400.0	4500.0	4206.4	8200.0
4500.0	4600.0	4314.1	8300.0
4600.0	4700.0	4422.8	8400.0
4700.0	4800.0	4532.7	8500.0

Table A-18 continued

<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than or Equal to	Less Than	
8600.0	8700.0	9684.8
8700.0	8800.0	9839.1
8800.0	8900.0	9994.6
8900.0		10000.0

Table A-19. Conversion Table for Activities Interest Inventory, Response Choice

<u>Operational BAT Score</u>		Scaled BAT Score	<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than or Equal to	Less Than		Greater Than or Equal to	Less Than	
	.50	2.87	19.00	19.50	20.68
.50	1.00	3.34	19.50	20.00	21.15
1.00	1.50	3.81	20.00	20.50	21.62
1.50	2.00	4.28	20.50	21.00	22.09
2.00	2.50	4.75	21.00	21.50	22.56
2.50	3.00	5.21	21.50	22.00	23.03
3.00	3.50	5.68	22.00	22.50	23.50
3.50	4.00	6.15	22.50	23.00	23.96
4.00	4.50	6.62	23.00	23.50	24.43
4.50	5.00	7.09	23.50	24.00	24.90
5.00	5.50	7.56	24.00	24.50	25.37
5.50	6.00	8.03	24.50	25.00	25.84
6.00	6.50	8.50	25.00	25.50	26.31
6.50	7.00	8.96	25.50	26.00	26.78
7.00	7.50	9.43	26.00	26.50	27.25
7.50	8.00	9.90	26.50	27.00	27.71
8.00	8.50	10.37	27.00	27.50	28.18
8.50	9.00	10.84	27.50	28.00	28.65
9.00	9.50	11.31	28.00	28.50	29.12
9.50	10.00	11.78	28.50	29.00	29.59
10.00	10.50	12.25	29.00	29.50	30.06
10.50	11.00	12.71	29.50	30.00	30.53
11.00	11.50	13.18	30.00	30.50	31.00
11.50	12.00	13.65	30.50	31.00	31.46
12.00	12.50	14.12	31.00	31.50	31.93
12.50	13.00	14.59	31.50	32.00	32.40
13.00	13.50	15.06	32.00	32.50	32.87
13.50	14.00	15.53	32.50	33.00	33.34
14.00	14.50	16.00	33.00	33.50	33.81
14.50	15.00	16.46	33.50	34.00	34.28
15.00	15.50	16.93	34.00	34.50	34.75
15.50	16.00	17.40	34.50	35.00	35.21
16.00	16.50	17.87	35.00	35.50	35.68
16.50	17.00	18.34	35.50	36.00	36.15
17.00	17.50	18.81	36.00	36.50	36.62
17.50	18.00	19.28	36.50	37.00	37.09
18.00	18.50	19.75	37.00	37.50	37.56
18.50	19.00	20.21			

Table A-19 continued

<u>Operational BAT Score</u>		Scaled BAT Score	<u>Operational BAT Score</u>		Scaled BAT Score
Greater Than or Equal to	Less Than		Greater Than or Equal to	Less Than	
37.50	38.00	38.03	57.00	57.50	56.31
38.00	38.50	38.50	57.50	58.00	56.78
38.50	39.00	38.96	58.00	58.50	57.25
39.00	39.50	39.43	58.50	59.00	57.71
39.50	40.00	39.90	59.00	59.50	58.18
40.00	40.50	40.37	59.50	60.00	58.65
40.50	41.00	40.84	60.00	60.50	59.12
41.00	41.50	41.31	60.50	61.00	59.59
41.50	42.00	41.78	61.00	61.50	60.06
42.00	42.50	42.25	61.50	62.00	60.53
42.50	43.00	42.71	62.00	62.50	61.00
43.00	43.50	43.18	62.50	63.00	61.46
43.50	44.00	43.65	63.00	63.50	61.93
44.00	44.50	44.12	63.50	64.00	62.40
44.50	45.00	44.59	64.00	64.50	62.87
45.00	45.50	45.06	64.50	65.00	63.34
45.50	46.00	45.53	65.00	65.50	63.81
46.00	46.50	46.00	65.50	66.00	64.28
46.50	47.00	46.46	66.00	66.50	64.75
47.00	47.50	46.93	66.50	67.00	65.21
47.50	48.00	47.40	67.00	67.50	65.68
48.00	48.50	47.87	67.50	68.00	66.15
48.50	49.00	48.34	68.00	68.50	66.62
49.00	49.50	48.81	68.50	69.00	67.09
49.50	50.00	49.28	69.00	69.50	67.56
50.00	50.50	49.75	69.50	70.00	68.03
50.50	51.00	50.21	70.00	70.50	68.50
51.00	51.50	50.68	70.50	71.00	68.96
51.50	52.00	51.15	71.00	71.50	69.43
52.00	52.50	51.62	71.50	72.00	69.90
52.50	53.00	52.09	72.00	72.50	70.37
53.00	53.50	52.56	72.50	73.00	70.84
53.50	54.00	53.03	73.00	73.50	71.31
54.00	54.50	53.50	73.50	74.00	71.78
54.50	55.00	53.96	74.00	74.50	72.25
55.00	55.50	54.43	74.50	75.00	72.71
55.50	56.00	54.90	75.00	75.50	73.18
56.00	56.50	55.37	75.50	76.00	73.65
56.50	57.00	55.84	76.00	76.50	74.12

Table A-19 continued

<u>Operational BAT Score</u>		Scaled	<u>Operational BAT Score</u>		Scaled
Greater Than		BAT	Greater Than		BAT
or Equal to	Less Than	Score	or Equal to	Less Than	Score
76.50	77.00	74.59	96.00	96.50	92.87
77.00	77.50	75.06	96.50	97.00	93.34
77.50	78.00	75.53	97.00	97.50	93.81
78.00	78.50	76.00	97.50	98.00	94.28
78.50	79.00	76.46	98.00	98.50	94.75
79.00	79.50	76.93	98.50	99.00	95.21
79.50	80.00	77.40	99.00	99.50	95.68
80.00	80.50	77.87	99.50	100.00	96.15
80.50	81.00	78.34	100.00		96.62
81.00	81.50	78.81			
81.50	82.00	79.28			
82.00	82.50	79.75			
82.50	83.00	80.21			
83.00	83.50	80.68			
83.50	84.00	81.15			
84.00	84.50	81.62			
84.50	85.00	82.09			
85.00	85.50	82.56			
85.50	86.00	83.03			
86.00	86.50	83.50			
86.50	87.00	83.96			
87.00	87.50	84.43			
87.50	88.00	84.90			
88.00	88.50	85.37			
88.50	89.00	85.84			
89.00	89.50	86.31			
89.50	90.00	86.78			
90.00	90.50	87.25			
90.50	91.00	87.71			
91.00	91.50	88.18			
91.50	92.00	88.65			
92.00	92.50	89.12			
92.50	93.00	89.59			
93.00	93.50	90.06			
93.50	94.00	90.53			
94.00	94.50	91.00			
94.50	95.00	91.46			
95.00	95.50	91.93			
95.50	96.00	92.40			